TOSHIBA

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SERVICE MANUAL

COLOUR TELEVISION

C8SS Chassis

3788DG

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CHAPTER 1 GENERAL ADJUSTMENTS

SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

1. Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this receiver is Ⓐ kV at zero beam current (minimum brightness) under a Ⓒ V AC power source. The high voltage must not, under any circumstances, exceed Ⓑ kV.

   Refer to table-1 for high voltage Ⓐ, Ⓑ & AC voltage Ⓒ. (See SETTING & ADJUSTING DATA on page 16)

   Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure in this manual. It is recommended that the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.
2. The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
3. Some part in this receiver have special safety-related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

SAFETY PRECAUTION

WARNING : Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as; non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.
Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-ray radiation or other hazards.

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

SET-UP ADJUSTMENT

■ The following adjustments should be made when a complete realignment is required or a new picture tube is installed. Perform the adjustments in order as follows :

1. Color Purity
2. Convergence
3. White Balance

Note: The PURITY/CONVERGENCE MAGNET assembly and rubber wedges need mechanical positioning. Refer to figure 1.

* There are no adjustment of purity and convergence in some picture tube (Unified with purity magnet)

COLOR PURITY ADJUSTMENT

NOTE : Before attempting any purity adjustments, the receiver should be operated for at least fifteen minutes.

1. Demagnetize the picture tube and cabinet using a degaussing coil.
2. Set the brightness and contrast to maximum.
3. Use a green raster from among the built-in test signals.
4. Loosen the clamp screw holding the yoke and slide the yoke backward or forward to provide vertical green belt (zone) in the picture screen.
5. Remove the Rubber Wedges.
6. Rotate and spread the tabs of the purity magnet (See figure 2.) around the neck of the picture tube until the green belt is in the center of the screen. At the same time, enter the raster vertically.
7. Slowly move the yoke forward or backward until a uniform green screen is obtained. Tighten the clamp screw of the yoke temporarily.
8. Check the purity of the red and blue raster.

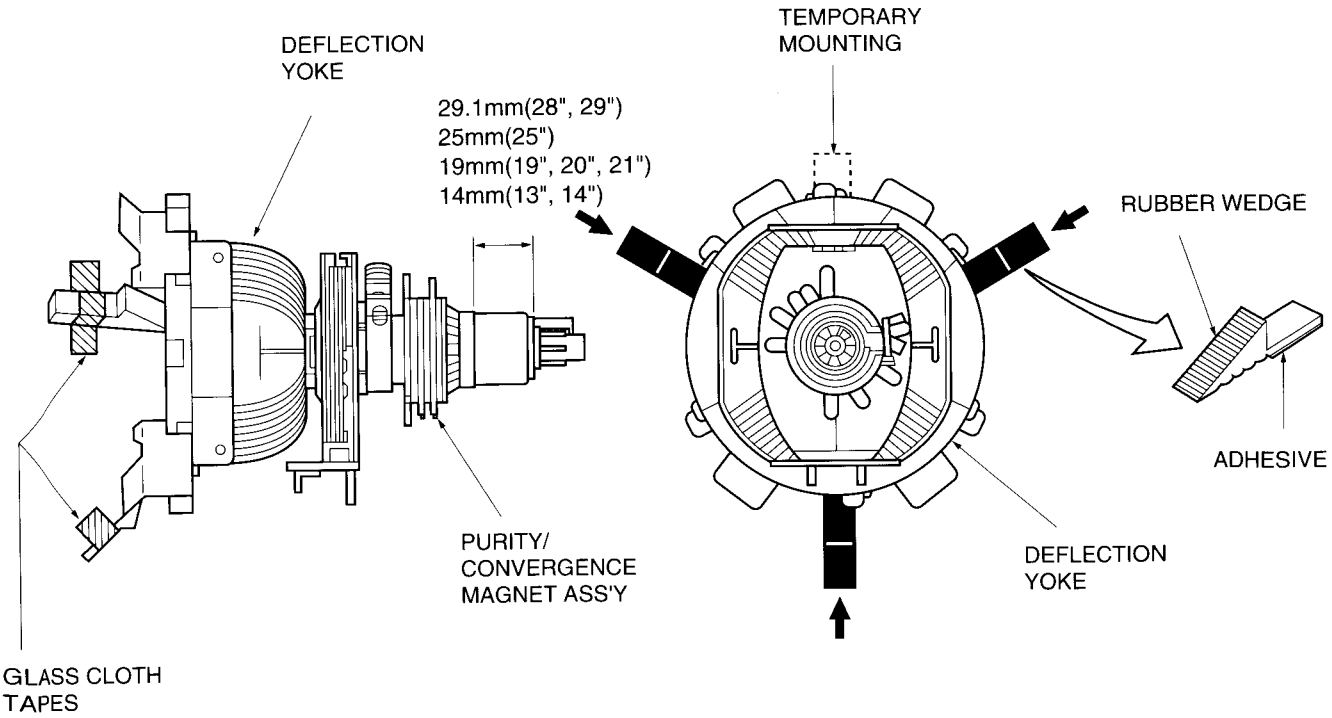


Figure 1.

CONVERGENCE ADJUSTMENTS

NOTE: Before attempting any convergence adjustments, the receiver should be operated for at least fifteen minutes.

■ CENTER CONVERGENCE ADJUSTMENT

1. Use the cross-dot pattern from among the built-in test signals.
2. Set the brightness and contrast for well defined pattern.
3. Adjust two tabs of the 4-Pole Magnets to change the angle between them (See figure 2.) and superimpose red and blue vertical lines in the center area of the picture screen.
4. Turn the both tabs at the same time keeping the angle constant to superimpose red and blue horizontal lines at the center of the screen.
5. Adjust two tabs of 6-Pole Magnets to superimpose red/blue line and green one. Adjusting the angle affects the vertical lines and rotating both magnets affects the horizontal lines.
6. Repeat adjustments 3, 4, 5 keeping in mind red, green and blue movement, because 4-Pole Magnets and 6-Pole Magnets have mutual interaction and make dot movement complex.

■ CIRCUMFERENCE CONVERGENCE ADJUSTMENT

1. Loosen the clamping screw of deflection yoke slightly to allow the yoke to tilt.
2. Temporarily put a wedge as shown in figure 1. (Do not remove cover paper on adhesive part of the wedge.)
3. Tilt front of the deflection yoke up or down to obtain better convergence in circumference. (See figure 3.) Push the mounted wedge into the space between picture tube and the yoke to fix the yoke temporarily.
4. Put other wedge into bottom space and remove the cover paper to stick.
5. Tilt front of the yoke right or left to obtain better convergence in circumference. (See figure 3.)
6. Keep the yoke position and put another wedge in either upper space. Remove cover paper and stick the wedge on picture tube to fix the yoke.
7. Detach the temporarily mounted wedge and put it in another upper space. Stick it on picture tube to fix the yoke.
8. After fixing three wedges, recheck overall convergence. Tighten the screw firmly to fix the yoke and check the yoke is firm.
9. Stick three adhesive tapes on wedges as shown in figure 1.

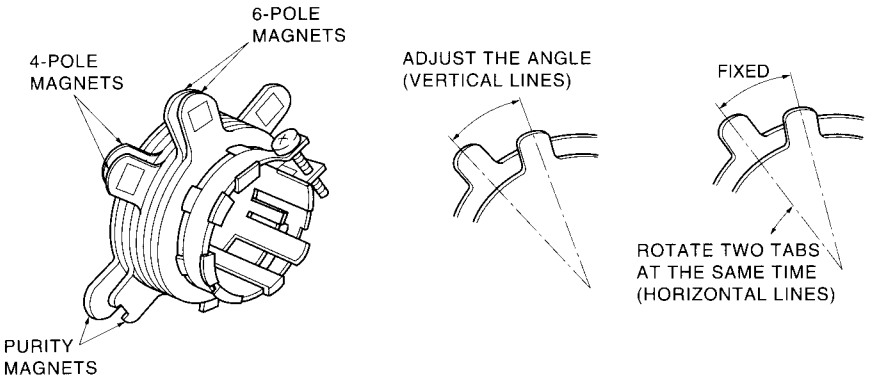
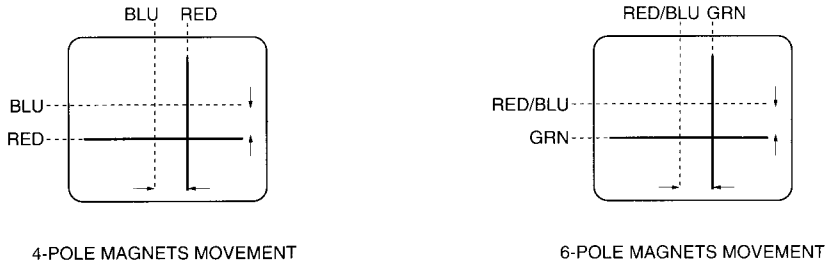
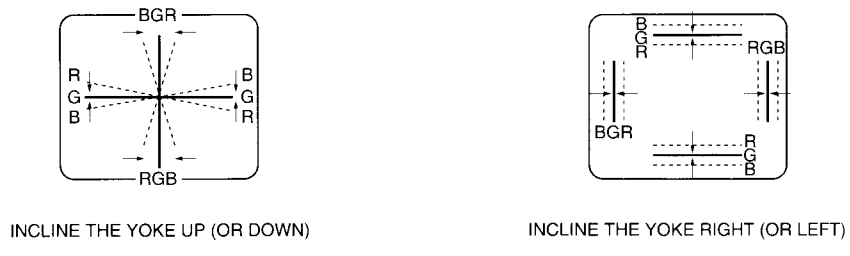


Figure 2.



Center Convergence by Convergence Magnets



Circumference Convergence by DEF Yoke

Figure 3. Dot Movement Pattern

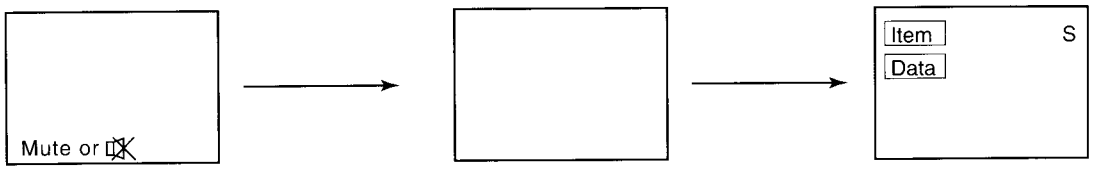
SERVICE MODE

1. ENTERING TO SERVICE MODE

1) Press 🔇 button once on Remote Control.

2) Press 🔇 button again to keep pressing.

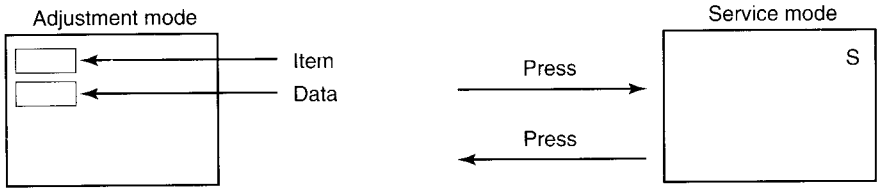
3) While pressing the 🔇 button, press MENU button on TV set.



(Service mode display)

2. DISPLAYING THE ADJUSTMENT MENU

1) Press MENU button on TV.



3. KEY FUNCTION IN THE SERVICE MODE

The following key entry during display of adjustment menu provides special functions.

A single horizontal line ON/OFF:	- / - - button (on Remote) or -⊖ button (on TV)
Test signal selection :	-⊖ button (on Remote)
Selection of the adjustment items :	Channel ▲/▼ (on TV & Remote)
Change of the data value :	Volume ◿ +/– (on TV & Remote)
Adjustment menu mode ON/OFF :	MENU button (on TV)
Initialization of the memory (QA02) :	CALL + Channel button on TV (▲)
Reset the count of operating protect circuit to "00":	CALL + Channel button on TV (▼)
"RCUT" selection :	1 button
"GCUT" selection :	2 button
"BCUT" selection :	3 button
"CNTX" (or "SCNT") selection :	4 button
"COLC" selection :	5 button– – – – Color thickness correction
"TNTC" selection :	6 button note: Displayed differently as shown below, de-
Test audio signal ON/OFF (1kHz) :	8 button pending on the setting of the receiving color
Self diagnostic display ON/OFF :	9 button system.
	COLP (PAL)
	COLC (NTSC)
	COLS (SECAM)

CAUTION : Never try to perform initialization unless you have changed the memory IC.

4. SELECTING THE ADJUSTING ITEMS

1) Every pressing of CHANNEL ▲ button in the service mode changes the adjustment items in the order of table-2. (▼ button for reverse order)

Refer to table-2 for preset data of adjustment mode.
(See SETTING & ADJUSTING DATA on page 16)

5. ADJUSTING THE DATA

1) Pressing of VOLUME ◿ +/– button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

6. EXIT FROM SERVICE MODE

1) Pressing POWER button to turn off the TV once.

■ INITIALIZATION OF MEMORY DATA OF QA02

After replacing QA02, the following initialization is required.

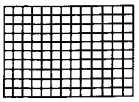
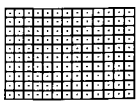
1. Enter the service mode, then select any register item.
2. Press and hold the CALL button on the Remote, then press the CHANNEL ▲ button on the TV. The initialization of QA02 has been complated.
3. Check the picture carefully. If necessary, adjust any adjustment item above. Perform "Auto search Memory" on the owner's manual.

CAUTION: Never attempt to initialize the data unless QA02 has been replaced.

7. TEST SIGNAL SELECTION

1) Every pressing of ⊕ button on the Remote Control changes the built-in test patterns on screen as described below in SERVICE MODE.

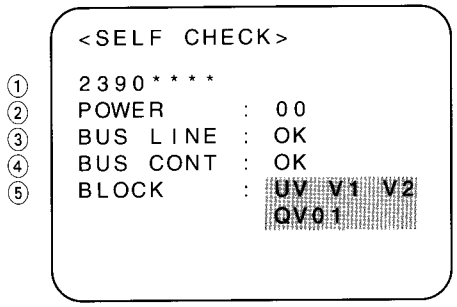
Signal off → NTSC signals (14 patterns)
↑ ← PAL signals (14 patterns) ←

Signals	Picture
• Red raster • Green raster • Blue raster • All Black • All White	
• Black & White	
• Black cross-bar • White cross-bar • Black cross-bar on green raster	
• Black cross-hatch • White cross-hatch	
• Black cross-dot • White cross-dot	
• H signal (white) • H signal (black)	

* The signals marked with are not usable to display in the Test signal for some model.

8. SELF DIAGNOSTIC FUNCTION

1) Press "9" button on Remote Control during display of adjustment menu in the service mode.
   The diagnosis will begin to check if interface among IC's are executed properly.
2) During diagnosis, the following displays are shown.



Indicated color of mode now selected : Green and Red
Indicated color of other modes : White

Green : Normal
Red : The microcomputer operates to provide judgement of no video signal. The red color is still indicated though the signal is input, failure may exist in input signal line including QV01.
QV01 : In case of indication green ---Normal
In case of indication red with input signal----
Failure may exist in output line including QV01.

① Part number of microcomputer (QA01)
② Operation number of protecting circuit ----"00" is normal.
When indication is other than "00", overcurrent apts to flow, and circuit parts may possibly be damaged.
③ BUS LINE CHECK ----"OK" is normal.
"SDA1-GND" ---------- SDA-GND short circuit.
"SCL1-GND" ---------- SCL-GND short circuit.
"SCL1-SDA1" ---------- SCL-SDA short circuit.
④ BUS CONT ----"OK" is normal.
When indication shows "Q○○○ NG", the device with the number may possibly be damaged.
⑤BLOCK
UV : TV reception mode
V1 : VIDEO 1 input mode (-€1)
V2 : VIDEO 2 input mode (-€2)

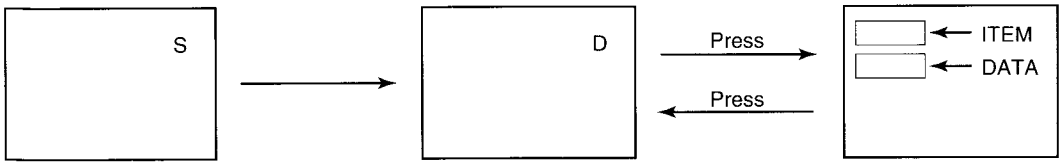
NOTE: Component which controls character display on screen is ICF01 (TELETEXT IC.). If this display function fails to operate due to damage in ICF01, self diagnosis procedure is as follows.
(1) In case that power indicator is blinking with interval of 0.5 seconds; it means protecting circuit (Current limiter) is operating, and circuit components may possibly be damaged. Check related components.
(2) In case that power indicator is blinking with interval of 1 second; Protecting circuit does not operate, but a part of Bus line does not operate normally. Check Bus line.

* The items marked with ⁞⁞ are not usable to display in the SELF DIAGNOSTIC FUCTION for some model.

DESIGN MODE

1. ENTERING TO DESIGN MODE

1) Select the Service mode. 2) While pressing 🔇 or CALL button on Remote and press MENU button on TV. 3) Press MENU button on TV.



(Design mode) (Adjustment mode)

When QA02 is initialized, items "OPT0" and "OPT1" of DESIGN MODE are set to the data of the representative model of this chassis family.
Therefore, because ON-SCREEN specification remains in the state of the representative of model. This model is required to reset the data of items "OPT0" and "OPT1".

2. SELECTING THE ADJUSTING ITEMS

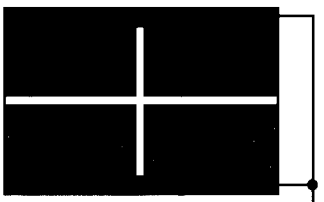
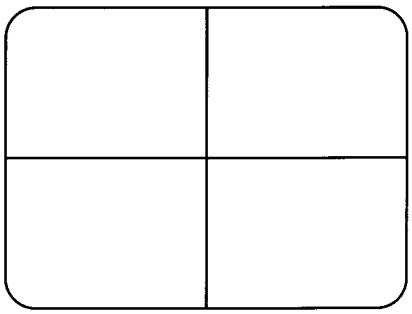
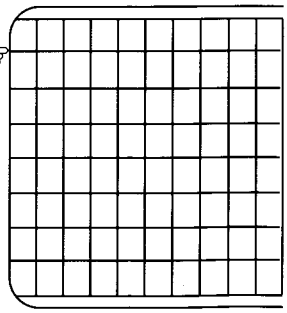
Every pressing of CHANNEL ▼ button in the design mode changes the adjustment items in the order of table-3.
(▲ button for reverse side)

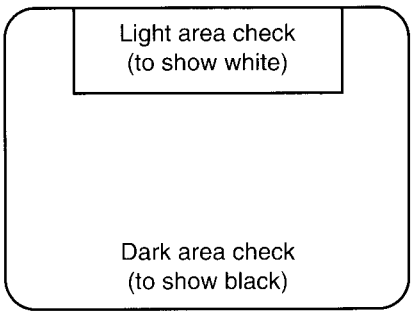
Refer to table-3 for data of design mode.
(See SETTING & ADJUSTING DATA on page 16)

3. ADJUSTING THE DATA

Pressing of VOLUME ▲ or ▼ button will change the value of data.

ELECTRICAL ADJUSTMENTS

ITEM	ADJUSTMENT PROCEDURE
FOCUS VR ADJ	1. Enter the service mode, then select any register item. 2. Press the TV/VIDEO button on the Remote until the black cross-bar pattern appears on the screen. 3. Adjust the FOCUS control (on T461) for well defined scanning lines on the picture screen.
SUB-BRIGHTNESS (BRTC) Note: Constrict the picture height until the vertical retrace line appears adjusting the item HIT (HEIGHT).	1. Set CONTRAST to minimum, and BRIGHTNESS to center by adjusting user controls. 2. Set the TV in service mode to get white cross-bar of inside pattern. 3. Select BRTC (brightness correction), and adjust the ◿ – /+ button to reduce the value so that white portion of inside pattern slightly light. 4. Adjust ◿ – /+ button to increase the data value of BRTC, and set it just before the difference between the belt of vertical retrace and the border of black portion of inside pattern is visible. After that, return vertical height and contrast.  Belt of vertical retrace
HORIZONTAL POSITION ADJUSTMENT (HPOS) VERTICAL POSITION ADJUSTMENT (VPOS)	1. Set the TV in service mode, and get black or white cross-bar signal with VIDEO button on remote hand unit. 2. Select either HPOS (Horizontal picture phase) or VPOS (Vertical picture phase) with CHANNEL ▲, ▼ buttons, and adjust horizontal or vertical picture position in the center of screen with VOLUME ◿ – /+ buttons. 
VERTICAL AMPLITUDE ADJUSTMENT (HIT)	1. Set the TV in service mode, and get black or white cross-hatch signal with VIDEO button on remote hand unit. 2. Select HIT (Vertical amplitude) with CHANNEL ▲, ▼ buttons, and adjust vertical amplitude with VOLUME ◿ – /+ buttons so that vertical amplitude lacks a little. 3. Adjust vertical amplitude with VOLUME ◿ – /+ buttons so that the first bar on cross-hatch signal touches edge of screen. The first 

ITEM	ADJUSTMENT PROCEDURE
WHITE BALANCE ADJUSTMENT ● CUTOFF ADJUSTMENT (RCUT) (GCUT) (BCUT) ● DRIVE ADJUSTMENT (GDRV) (BDRV)	1. Set Contrast to 40, and brightness to +20 by picture control. 2. Set the TV in service mode, and get the inside W/B adjusting signal with VIDEO button. 3. Select RCUT, GCUT and BCUT with CHANNEL ▲, ▼ buttons, to set individual values to Initial reference data, and to set GDRV and BDRV to Initial reference data with VOLUME ◿ – /+ buttons. 4. Press [-/- -] button on the remote control and rotate Screen VR to get one slight horizontal line on screen. Note: Every pressing of [-/- -] button provides Horizontal line picture and Normal picture alternately. 5. Press [-/- -] button to release horizontal line picture, and select the two other colors which did not light in the above step with CHANNEL ▲, ▼ buttons. Then tap VOLUME ◿ – /+ buttons so that three colors slightly light in the same level. ※ To correct white balance in light area, select GDRV and BDRV with CHANNEL ▲, ▼ buttons to adjust. ※ To correct white balance in dark area, perform fine adjustment of RCUT, GCUT and BCUT. 

C8SS Series (Reference Factory Adjustments)

Item. [SCNT]
Name. SUB-CONTRAST SETTING. DYNAMIC MODE Input signal. SUB-BRIGHT SIGNAL (PAL–I, 80% mod.) Measurement place. Q501 #55PIN (TP501) Adjustment method. Adjust the amplitude from pedestal-level to a white peak. Making standard 2.3±0.2Vop
Item. [BRTC]
Name. SUB-BRIGHT CENTER SETTING. DYNAMIC MODE Input signal. SUB-BRIGHT SIGNAL Measurement place. On picture Adjustment method. It is black step of the (*sub-bright*) signal and adjust the number. Making standard 4±1.5 bar
Item. [COLP]
Name. SUB-COLOR CENTER (PAL) SETTING. DYNAMIC MODE Input signal. SUB-BRIGHT SIGNAL (PAL) Measurement place. Q501 #55PIN (TP501) Adjustment method. Adjust the amplitude of B-Y. Making standard 1.40±0.2 Vop
Item. [RCUT], [GCUT], [BCUT], [GDRV], [BDRV], [SCREEN VR]
Name. CUT OFF/DRIVE ADJUST SETTING. [RCUT], [GCUT], [BCUT], [GDRV], [BDRV] each data set = 40h Set to White line mode0 Input signal. White signal Measurement place. On picture. Adjustment method. Raise screen VR gradually and stop in the place where the line of either of R or G or B shines slightly. Decide the position of screen VR there. Raise the color data other than the line which shines by first gradually shine point. Stop in the place whice shies in most white. Make clear white line mode. Adjust it repeatedly for both the shade part and discernment to become a correct numerical value by using proofread CA100. Making standard 103cd/m^2 8750K –0.002uv 17cd/m^2 8750K –0.002uv

Item. [BELL]
Name. BELL FILTER SETTING. NONE Input signal. SECAM COLOR BAR. Measurement place. QQ01 #21 (TPM01) Adjustment method. Adjust with the synchroscope as the display crimp is flat. Making standard 100±10%
Item. [SRY]
Name. SECAM R-Y BLACK LEVEL. SETTING. DYNAMIC MODE Input signal. SECAM COLOR BAR. Measurement place. Q501 #55 (TP501) Adjustment method. Adjust [SRY] the level of the monochrome signal part must be a match to the level of horizontal blanking signal. Making standard 0±40mV
Item. [SBY]
Name. SECAM B-Y BLACK LEVEL. SETTING. DYNAMIC MODE Input signal. SECAM COLOR BAR. Measurement place. Q501 #55 (TP501) Adjustment method. Adjust [SBY] the level of the monochrome signal part must be a mutch to the level of horizontal blanking signal. Making standard 0±40mV
Item. [COLS]
Name. SUB-COLOR CENTER (SECAM). SETTING. DYNAMIC MODE Input signal. SECAM COLOR BAR. Measurement place. Q501 #55 (TP501) Adjustment method. Adjust the amplitude of R-Y. (Mute the picture in adjustment) Making standard 1.90±0.2Vop (Pedestal to peak)
Item. [VERT POSITION]
SETTING. CONTRAST=MAX. BRIGHT=CENTER COLOR=CENTER Input signal. WG Philips Pattern (Do not use French SECAM). Measurement place. On Screen Adjustment method. a:Adjust the height so as to appear the flag of both upper and lower side. b:Adjust the picture to the center of the screen by [VPOS].

Item. [V.HEIGHT]
SETTING. CONTRAST=MAX. BRIGHT=CENTER COLOR=CENTER Input signal. WG Philips Pattern (Do not use French SECAM). Measurement place. On Screen Adjustment method. Adjust the Picture so as to just disappear the flag of both upper and lower side with [HIT].
Item. [HORIZONTAL POSITION]
SETTING. CONTRAST=MAX. BRIGHT=CENTER COLOR=CENTER Input signal. WG Philips Pattern (Do not use French SECAM). Measurement place. On Screen Adjustment method. Adjust the Picture of Philips pattern to the center of the screen with [HPOS]. (Minimize D-C by the CRT adjustment magnetic field)
Item. [HORIZONTAL WIDTH] [SIDE PINCTION] [TRAPEZOID DISTORTION]
SETTING. CONTRAST=MAX. BRIGHT=CENTER COLOR=CENTER After V-HIGHT/V-POSITION adjustment. Input signal. WG Philips Pattern (Do not use French SECAM). Measurement place. On Screen Adjustment method. 1. Width: Adjust the width to just disappear the flag of both left and right side with [WID]. 2. E/W : Adjust the vertical bar of both left and right end to the straightline it with [DPC]. 3. Trapezium : Compensate the trapeqoid distortion with [TRAP]. 4. Width : Adjust the width again. (Turn the direction of CPT to the east or the west when adjusting. adjust the amount offsetting if it is not possible to do.)
Item. [Horizontal, synchronous VR adjustment] (R4450)
SETTING. UNIT ADJUSTMENT Adjustment method. Supply +12V to the terminal HVCC. Adjust the frequency of the terminal Q420#24 with a frequency counter to 31.36±0.15kHz. Note: Connect power supply GND with GND of all connectors when you supply the power supply.

CIRCUIT CHECK

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis. Checking should be done following the steps below.

1. Connect an accurate high voltage meter to the second anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST controls to minimum (zero beam current).
3. High voltage must be measured below Ⓑ kV.

   Refer to table-1 for high voltage Ⓑ.
   (See SETTING & ADJUSTING DATA on page 16)

4. Vary the BRIGHTNESS control to both extremes to be sure the high voltage does not exceed the limit under any conditions.

CHAPTER 2 SPECIFIC INFORMATIONS

SETTING & ADJUSTING DATA

【 SAFETY INSTRUCTIONS 】

		37"
HIGH VOLTAGE AT ZERO BEAM:	Ⓐ	32.5 kV
MAX HIGH VOLTAGE:	Ⓑ	33.6 kV
AC VOLTAGE	Ⓒ	220~240 V

Table-1

【 SERVICE MODE 】

ADJUSTING ITEMS AND DATAS IN THE SERVICE MODE:

Item	Adjustment		Preset	Data
RCUT	R CUTOFF (B/W)		40H	←
GCUT	G CUTOFF (B/W)		40H	←
BCUT	B CUTOFF (B/W)		40H	←
GDRV	G DRIVE		40H	←
BDRV	B DRIVE		40H	←
CNTX	SUB CONTRAST MAX		7FH	←
BRTC	SUB BRIGHT CEN		80H	←
COLC	SUB COLOR CEN NTSC		15H	←
TNTC	SUB TINT CEN		48H	←
COLP	SUB COLOR CEN PAL		39H	←
COLS	SUB COLOR CEN SECAM		F0H	←
SCOL	SUB COLOR		07H	←
SCNT	SUB CONTRAST		19H	←
HPS	H-POSITION (DIFF)		07H	←
HITS	PICTURE HEIGHT (DIF)		03H	←
NVPO	V-POSITION (60Hz DEF)		FFH	←
HVPU	H.V-POSTION (MSB)		00H	←
VLIN	V-LINEARITY	(50Hz)	0BH	←
VSC	V-S CORRECTION	↓	0BH	←
VPS	V-SHIFT	↓	0FH	←
VCP	V-COMPENSATION	↓	05H	←
WID	PICTURE WIDTH	↓	28H	←
PARA	E-W PARABORA	↓	2FH	←

Item	Adjustment		Preset	Data
CNR	E-W CORNER	(50Hz)	02H	←
TRAP	TRAPEZIUM	↓	0DH	←
HCP	H-COMPENSATION	↓	00H	←
VFC	V-S CORRECTION	↓	0FH	←
NVLI	V-LINEARITY	(60Hz)	00H	←
NVSC	V-S CORRECTION	↓	00H	←
NVPS	V-SHIFT	↓	00H	←
NVCP	V-COMPENSATION	↓	00H	←
NWID	PICTURE WIDTH	↓	00H	←
NPAR	E-W PARABORA	↓	01H	←
SCNR	E-W CORNER 16:9 (DEF)		FEH	←
NTRP	TRAPEZIUM	(60Hz)	00H	←
NHCP	H-COMPENSATION	↓	00H	←
NVFC	V-S CORRECTION	↓	00H	←
SHIT	HIT 16:9 (DEF)		DCH	←
SLIN	V-LINEARITY 16:9 (DEF)		FEH	←
SVSC	V-S CORRECTION 16:9 (DEF)		FBH	←
SFT	V-SHIFT 16:9 (DEF)		00H	←
SEWP	E-W PARABORA 16:9 (DEF)		E9H	←
BELL	SECAM BELL FILTER fo ADJ		80H	←
SRY	SECAM R-Y BLACK LEVEL		08H	←
SBY	SECAM B-Y BLACK LEVEL		08H	←

Table-2

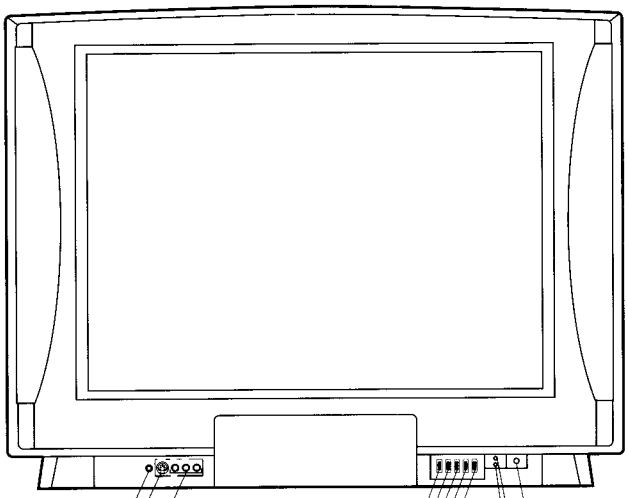
【 DESIGN MODE 】

ADJUSTING ITEMS AND DATAS IN THE DESIGN MODE:

Item	Name of adjustment	Preset Data	Data	Remarks
	* There are no adjustment mode in the DESIGN MODE.			

Table-3

LOCATION OF CONTROLS



HEAD PHONE

(VIDEO-3)
S-VIDEO TERMINAL

VIDEO-3

MENU

VOLUME DOWN

VOLUME UP

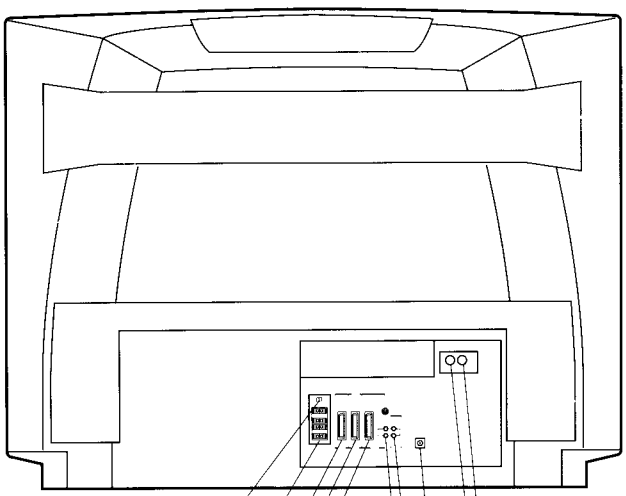
POSITION DOWN

POSITION UP

MAIN SWITCH

POWER INDICATOR

ON-TIMER INDICATOR



EXTERNAL SPEAKER SWITCH

EXTERNAL SPEAKER TERMINAL

VIDEO-1 (21 PINS FULL)

VIDEO-2 (21 PINS S-VIDEO/AV)

VIDEO-3 (21 PINS S-VIDEO/AV)

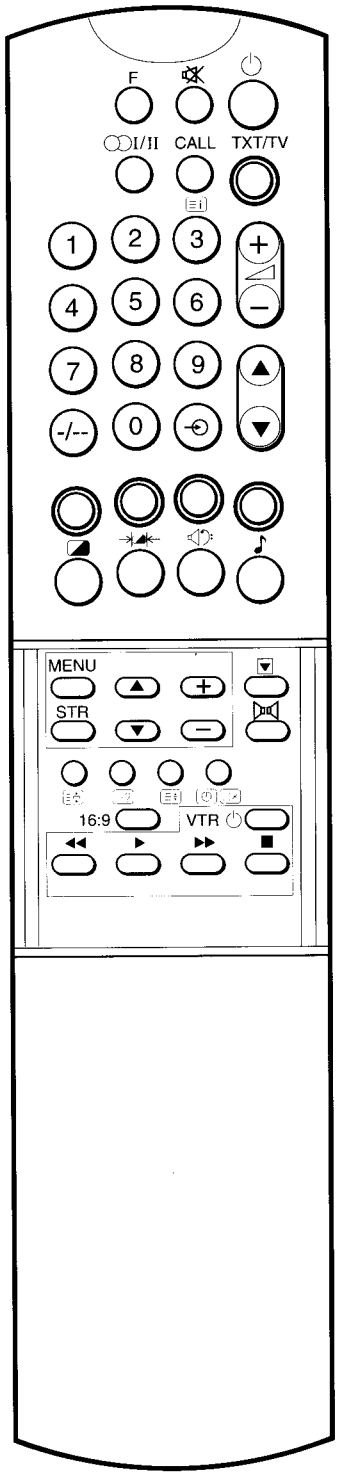
DIGITAL AUDIO INPUT
(COAXIAL)

DIGITAL AUDIO INPUT
(OPTICAL)

AERIAL TERMINAL

AUDIO OUT (FIXED)

VIDEO-3 (S-VIDEO/AUDIO)



KEY ASSIGNMENT

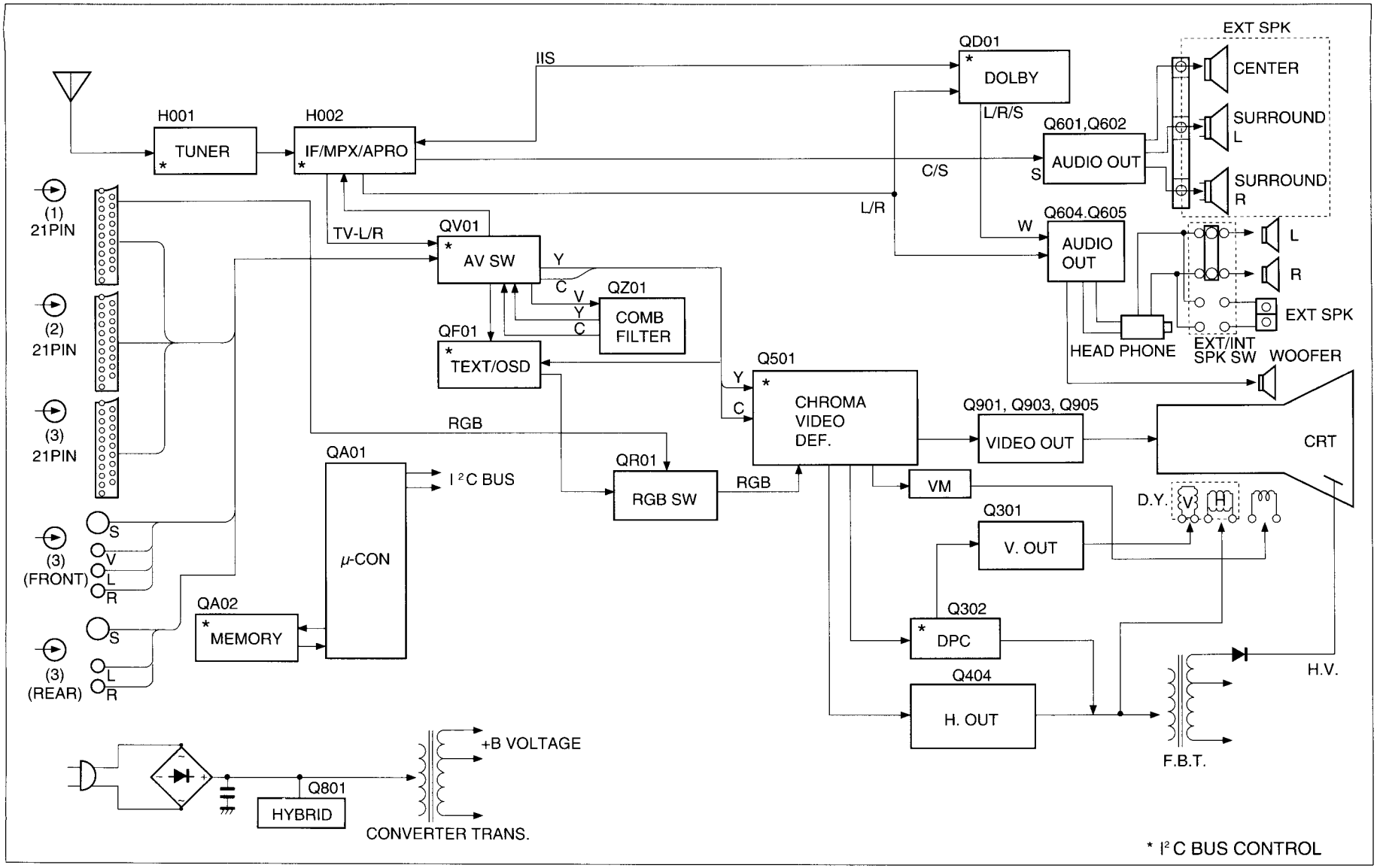
⏻ ..... ON/STAND-BY
🔇 ..... Sound mute
F ..... (Quick/advanced operation)
CALL (On-screen call)/ⓘ (index, initial) ..... TELETEXT MODE
◪ ..... PICTURE MENU
♪ ..... SOUND MENU
I/II ..... <TV MODE> ..... STEREO BILINGUAL
1~9, 0 ..... TEN KEY
-/ - -..... 1 or 2 place
⏀ ..... VIDEO INPUT (EXTERNAL INPUT SOURCE SW.)
◿ ..... VOLUME
\+ ..... LEVEL PLUS (VOLUME, MENU)
– ..... LEVEL MINUS (VOLUME, MENU)
▲ ..... UP (POSI., CH., TEXT PAGE)
▼ ..... DOWN (POSI., CH., TEXT PAGE)

TELE-TEXT
- TXT/TV ... TEXT, MIX, TV MODE SW.
- ..... HOLD
- ..... <TEXT MODE> ..... REVEAL / CONCEAL
- ..... <TEXT MODE> ..... F-T-B (FULL, TOP, BOTTOM)
- /..... TIME DISPLAY (TV MODE) / TEXT CLEAR (TEXT MODE)
- FLOF COLOUR KEY (4 key used) Red/Green/Yellow/Blue

..... Super woofer
..... Selectable picture
MENU..... TUNING & OTHER MENU
STR ..... Store
/ ..... Menu select
/ ..... Level down/up
16:9 ..... PIC SIZE (Picture size select)

VTR control
⏻ Power on/standby
▶ Play
■ Stop
◀◀ Rewind
▶▶ Fast forward
DSP Surround

CIRCUIT BLOCK DIAGRAM



CHASSIS AND CABINET REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not degrade the safety of the receiver through improper servicing.

NOTICE:
- *The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.*
- *The PC board assembly with ★ mark is no longer available after the end of the production.*

ABBREVIATIONS:

Capacitors	CD	: Ceramic Disk	PF	: Plastic Film	EL	: Electrolytic
Resistors	CF	: Carbon Film	CC	: Carbon Composition	MF	: Metal Film
	OMF	: Oxide Metal Film	VR	: Variable Resistor	FR	: Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Location No.	Part No.	Description
CAPACITORS		
C101	24763221	EL, 220μF, ±20%, 16V
C102	24763221	EL, 220μF, ±20%, 16V
C103	24232103	CD, 0.01μF, +80%, −20%
C104	24793470	EL, 47μF, ±20%, 10V
C105	24212102	CD, 1000pF, ±10%
C106	24797100	EL, 10μF, ±20%, 50V
C107	24763221	EL, 220μF, ±20%, 16V
C108	24793101	EL, 100μF, ±20%, 10V
C110	24797479	EL, 4.7μF, ±20%, 50V
C111	24797229	EL, 2.2μF, ±20%, 50V
C115	24232103	CD, 0.01μF, +80%, −20%
C201	24669100	EL, 10μF, ±20%, 50V
C203	24538104	PF, 0.1μF
C204	24669010	EL, 1μF, ±20%, 50V
C205	24669229	EL, 2.2μF, ±20%, 50V
C206	24797220	EL, 22μF, ±20%, 50V
C207	24781100	Chip, 10pF, ±0.5%, SL
C208	24781100	Chip, 10pF, ±0.5%, SL
C209	24781100	Chip, 10pF, ±0.5%, SL
C212	24794100	EL, 10μF, ±20%, 16V
C214	24591334	PF, 0.33μF
C215	24781101	Chip, 100pF, SL
C216	24781101	Chip, 100pF, SL
C218	24781390	Chip, 39pF, SL
C230	24763221	EL, 220μF, ±20%, 16V
C273	24206229	EL, 2.2μF, 50V
C302	24617915	EL, 1μF, ±10%, 50V
C303	24214471	CD, 470pF, ±10%, 500V
C304	24082049	PF, 0.047μF, 100V
C306	24073059	EL, 3300μF, ±20%, 25V
C308	24668221	EL, 220μF, ±20%, 35V
C309	24668101	EL, 100μF, ±20%, 35V
C310	24796222	EL, 2200μF, ±20%, 35V
C313	24082057	PF, 0.22μF, 100V
C314	24590563	PF, 0.056μF
C315	24797229	EL, 2.2μF, ±20%, 50V
C317	24214821	CD, 820pF, ±10%, 500V
C318	24666101	EL, 100μF, ±20%, 16V
C319	24212102	CD, 1000pF, ±10%
C320	24212102	CD, 1000pF, ±10%
C321	24591203	PF, 0.02μF
C322	24617912	EL, 2.2μF, ±10%, 50V
C323	24567224	PF, 0.22μF
C324	24567683	PF, 0.068μF
C327	24617787	EL, 470μF, ±20%, 16V
C328	24232103	CD, 0.01μF, +80%, −20%
C341	24567104	PF, 0.1μF
C370	24794101	EL, 100μF, ±20%, 16V
C371	24794100	EL, 10μF, ±20%, 16V
C400	24082361	PF, 1000pF, ±10%, 15kV
C401	24538104	PF, 0.1μF
C403	24591103	PF, 0.01μF
C404	24797229	EL, 2.2μF, ±20%, 50V
C410	24092341	CD, 470pF, ±10%, 2kV
C413	24214332	CD, 3300pF, ±10%, 500V
C416	24668101	EL, 100μF, ±20%, 35V
C417	24214391	CD, 390pF, ±10%, 500V
C419	24212102	CD, 1000pF, ±10%
C420	24794101	EL, 100μF, ±20%, 16V
C421	24567104	PF, 0.1μF
C423	24829303	PF, 0.03μF, 400V
C430	24814103	Chip, 0.01μF, +80%, −20%
C431	24232103	CD, 0.01μF, +80%, −20%
C431	24763102	EL, 1000μF, ±20%, 16V
C439	24082830	PF, 3000pF, ±3%, 1800V
C440	24082830	PF, 3000pF, ±3%, 1800V
C442	24082641	PF, 0.15μF, 400V
C443	24082640	PF, 0.13μF
C444	24082828	PF, 2400pF, ±3%, 1800V
C445	24828473	PF, 0.047μF, 200V
C446	24679330	EL, 33μF, ±20%, 250V
C448	24640908	EL, 33μF, ±20%, 160V
C451	24829333	PF, 3300pF, 400V
C460	24796331	EL, 330μF, ±20%, 35V
C461	24082828	PF, 2400pF, ±3%, 1800V
C462	24666222	EL, 2200μF, ±20%, 16V
C463	24212392	CD, 3900pF, ±10%
C464	24640871	EL, 4.7μF, ±20%, 100V
C466	24820822	PF, 8200pF, 630V
C470	24794220	EL, 22μF, ±20%, 16V
C472	24567474	PF, 0.47μF
C473	24669010	EL, 1μF, ±20%, 50V
C477	24590183	PF, 0.018μF

Location No.	Part No.	Description
C478	24567334	PF, 0.33μF
C479	24214471	CD, 470pF, ±10%, 500V
C481	24567474	PF, 0.47μF
C484	24082254	PF, 1500pF, 100V
C491A	24082359	PF, 1000pF, ±10%, 15kV
C495	24092343	CD, 680pF, ±10%, 2kV
C496	24092343	CD, 680pF, ±10%, 2kV
C499	24668221	EL, 220μF, ±20%, 35V
C501	24781101	Chip, 100pF, SL
C502	24814103	Chip, 0.01μF, +80%, -20%
C503	24763221	EL, 220μF, ±20%, 16V
C504	24591222	PF, 2200pF
C505	24774120	Chip, 12pF, CH
C507	24774120	Chip, 12pF, CH
C508	24669100	EL, 10μF, ±20%, 50V
C509	24763101	EL, 100μF, ±20%, 16V
C510	24763101	EL, 100μF, ±20%, 16V
C511	24814103	Chip, 0.01μF, +80%, -20%
C512	24206228	EL, 0.22μF, 50V
C513	24814103	Chip, 0.01μF, +80%, -20%
C514	24538104	PF, 0.1μF
C515	24538104	PF, 0.1μF
C516	24781102	Chip, 1000pF, SL
C517	24774010	Chip, 1pF, CH
C519	24774010	Chip, 1pF, CH
C520	24781102	Chip, 1000pF, SL
C521	24781102	Chip, 1000pF, SL
C522	24781470	Chip, 47pF, SL
C523	24781470	Chip, 47pF, SL
C524	24781122	Chip, 1200pF, SL
C525	24774181	Chip, 180pF, CH
C526	24436101	CD, 100pF
C526	24092178	Chip, 0.1μF, ±10%, B
C601	24591102	PF, 1000pF
C602	24591102	PF, 1000pF
C603	24797229	EL, 2.2μF, ±20%, 50V
C604	24797229	EL, 2.2μF, ±20%, 50V
C605	24795101	EL, 100μF, ±20%, 25V
C606	24795101	EL, 100μF, ±20%, 25V
C607	24590104	PF, 0.1μF
C608	24590104	PF, 0.1μF
C609	24797471	EL, 470μF, ±20%, 50V
C610	24797471	EL, 470μF, ±20%, 50V
C611	24795221	EL, 220μF, ±20%, 25V
C613	24794471	EL, 470μF, ±20%, 16V
C614	24797229	EL, 2.2μF, ±20%, 50V
C620	24591102	PF, 1000pF
C621	24591102	PF, 1000pF
C623	24797229	EL, 2.2μF, ±20%, 50V
C624	24797229	EL, 2.2μF, ±20%, 50V
C625	24795101	EL, 100μF, ±20%, 25V
C626	24795101	EL, 100μF, ±20%, 25V
C627	24797229	EL, 2.2μF, ±20%, 50V
C628	24590104	PF, 0.1μF
C629	24590104	PF, 0.1μF
C630	24797471	EL, 470μF, ±20%, 50V
C631	24797471	EL, 470μF, ±20%, 50V
C632	24795221	EL, 220μF, ±20%, 25V
C634	24797229	EL, 2.2μF, ±20%, 50V
C635	24797229	EL, 2.2μF, ±20%, 50V
C636	24797471	EL, 470μF, ±20%, 50V
C637	24797010	EL, 1μF, ±20%, 50V
C638	24591103	PF, 0.01μF
C639	24797229	EL, 2.2μF, ±20%, 50V

Location No.	Part No.	Description
C640	24797010	EL, 1μF, ±20%, 50V
C641	24591223	PF, 0.022μF
C642	24591102	PF, 1000pF
C643	24795470	EL, 47μF, ±20%, 25V
C644	24797010	EL, 1μF, ±20%, 50V
C645	24797479	EL, 4.7μF, ±20%, 50V
C646	24590224	PF, 0.22μF
C647	24232103	CD, 0.01μF, +80%, -20%
C648	24797471	EL, 470μF, ±20%, 50V
C649	24796471	EL, 470μF, ±20%, 35V
C650	24794100	EL, 10μF, ±20%, 16V
C651	24085903	EL, 1μF, ±20%, 50V, Non-Polar
C652	24797478	EL, 0.47μF, ±20%, 50V
C653	24796470	EL, 47μF, ±20%, 35V
C654	24797478	EL, 0.47μF, ±20%, 50V
C655	24797479	EL, 4.7μF, ±20%, 50V
C656	24590224	PF, 0.22μF
C657	24232103	CD, 0.01μF, +80%, -20%
C658	24798471	EL, 470μF, ±20%, 100V
C659	24797102	EL, 1000μF, ±20%, 50V
C660	24797101	EL, 100μF, ±20%, 50V
C667	24212102	CD, 1000pF, ±10%
C668	24212102	CD, 1000pF, ±10%
C669	24797330	EL, 33μF, ±20%, 50V
C670	24797330	EL, 33μF, ±20%, 50V
C670	24781102	Chip, 1000pF, SL
C671	24814103	Chip, 0.01μF, +80%, -20%
C672	24814103	Chip, 0.01μF, +80%, -20%
C673	24781102	Chip, 1000pF, SL
C674	24781102	Chip, 1000pF, SL
C675	24781102	Chip, 1000pF, SL
C676	24781102	Chip, 1000pF, SL
C677	24781102	Chip, 1000pF, SL
C678	24781102	Chip, 1000pF, SL
C679	24781102	Chip, 1000pF, SL
C680	24797471	EL, 470μF, ±20%, 50V
C681	24781102	Chip, 1000pF, SL
C681	24797010	EL, 1μF, ±20%, 50V
C682	24590103	PF, 0.01μF
C682	24781102	Chip, 1000pF, SL
C683	24590103	PF, 0.01μF
C684	24794220	EL, 22μF, ±20%, 16V
C685	24814103	Chip, 0.01μF, +80%, -20%
C685	24232103	CD, 0.01μF, +80%, -20%
C689	24814103	Chip, 0.01μF, +80%, -20%
C704	24232103	CD, 0.01μF, +80%, -20%
C705	24797229	EL, 2.2μF, ±20%, 50V
C707	24794470	EL, 47μF, ±20%, 16V
C712	24666470	EL, 47μF, ±20%, 16V
C713	24790100	EL, 10μF, ±20%, 160V
C714	24436101	CD, 100pF
C715	24214472	CD, 4700pF, ±10%, 500V
C716	24436101	CD, 100pF
C717	24214472	CD, 4700pF, ±10%, 500V
C718	24794470	EL, 47μF, ±20%, 16V
C719	24435680	CD, 68pF, 500V
C720	24790100	EL, 10μF, ±20%, 160V
C721	24794470	EL, 47μF, ±20%, 16V
⚠C801	24082927	PF, 0.22μF, ±20%, AC275V
⚠C802	24082927	PF, 0.22μF, ±20%, AC275V
C805	24092281	CD, 4700pF, ±20%, AC250V
C806	24092281	CD, 4700pF, ±20%, AC250V
C808	24667331	EL, 330μF, ±20%, 25V

Location No.	Part No.	Description
C809	24214471	CD, 470pF, ±10%, 500V
C810	24086873	EL, 330μF, ±20%, 400V
C810	24763102	EL, 1000μF, ±20%, 16V
⚠C811	24092557	CD, 2200pF, ±20%, AC250V
⚠C813	24092555	CD, 1000pF, ±10%, AC250V
⚠C814	24092555	CD, 1000pF, ±10%, AC250V
⚠C815	24092553	CD, 470pF, ±10%, AC250V
C816	24669221	EL, 220μF, ±20%, 50V
C817	24092341	CD, 470pF, ±10%, 2kV
C818	24095931	PF, 2200pF, 1250V
C819	24676220	EL, 22μF, ±20%, 100V
C820	24092343	CD, 680pF, ±10%, 2kV
C821	24214471	CD, 470pF, ±10%, 500V
C822	24567474	PF, 0.47μF
C829	24590182	PF, 1800pF
C831	24795100	EL, 10μF, ±20%, 25V
C832	24794470	EL, 47μF, ±20%, 16V
C833	24794470	EL, 47μF, ±20%, 16V
C833	24669100	EL, 10μF, ±20%, 50V
C834	24794470	EL, 47μF, ±20%, 16V
C837	24794470	EL, 47μF, ±20%, 16V
C841	24669100	EL, 10μF, ±20%, 50V
C842	24669100	EL, 10μF, ±20%, 50V
C843	24567104	PF, 0.1μF
C846	24567104	PF, 0.1μF
C851	24214471	CD, 470pF, ±10%, 500V
C852	24214471	CD, 470pF, ±10%, 500V
C853	24214471	CD, 470pF, ±10%, 500V
C854	24214471	CD, 470pF, ±10%, 500V
C855	24676471	EL, 470μF, ±20%, 100V
C856	24669222	EL, 2200μF, ±20%, 50V
C857	24669222	EL, 2200μF, ±20%, 50V
C859	24667102	EL, 1000μF, ±20%, 25V
C861	24567104	PF, 0.1μF
C862	24669010	EL, 1μF, ±20%, 50V
C863	24590122	PF, 1200pF
C867	24669222	EL, 2200μF, ±20%, 50V
C868	24092281	CD, 4700pF, ±20%, AC250V
C869	24086871	EL, 120μF, ±20%, 400V
C870	24092281	CD, 4700pF, ±20%, AC250V
C871	24214471	CD, 470pF, ±10%, 500V
C872	24797221	EL, 220μF, ±20%, 50V
C873	24590272	PF, 2700pF
C876	24214331	CD, 330pF, ±10%, 500V
C877	24214471	CD, 470pF, ±10%, 500V
C878	24092339	CD, 330pF, ±10%, 2kV
C881	24667101	EL, 100μF, ±20%, 25V
C882	24082559	PF, 1500pF, ±3%, 1500V
C883	24092341	CD, 470pF, ±10%, 2kV
C884	24086916	EL, 330μF, ±20%, 160V
⚠C885	24092563	CD, 0.056μF, ±20%, 160V
⚠C886	24092563	CD, 0.056μF, ±20%, 160V
C887	24214471	CD, 470pF, ±10%, 500V
C888	24095634	PF, 0.01μF, ±3%, 630V
C889	24590102	PF, 1000pF
⚠C891	24082373	PF, 0.1μF, ±20%, AC250V
C892	24667332	EL, 3300μF, ±20%, 25V
C893	24092337	CD, 220pF, ±10%, 2kV
C894	24666332	EL, 3300μF, ±20%, 16V
C895	24676470	EL, 47μF, ±20%, 100V
C896	24214471	CD, 470pF, ±10%, 500V
C897	24666332	EL, 3300μF, ±20%, 16V
C899	24214471	CD, 470pF, ±10%, 500V
C902	24092353	CD, 4700pF, ±10%, 2kV

Location No.	Part No.	Description
C904	24436471	CD, 470pF
C905	24436471	CD, 470pF
C907	24436471	CD, 470pF
C909	24679220	EL, 22μF, ±20%, 250V
C910	24797478	EL, 0.47μF, ±20%, 50V
C911	24203100	EL, 10μF, ±20%, 16V
C912	24666331	EL, 330μF, ±20%, 16V
C913	24763102	EL, 1000μF, ±20%, 16V
C914	24212103	CD, 0.01μF, ±10%
C915	24092398	CD, 0.1μF, +80%,–20%
C920	24591104	PF, 0.1μF
C921	24591104	PF, 0.1μF
C930	24214101	CD, 100pF, ±10%, 500V
C940	24436390	CD, 39pF
C4031	24591562	PF, 5600pF
C4041	24206229	EL, 2.2μF, 50V
C4301	24206010	EL, 1μF, 50V
C4303	24591433	PF, 0.043μF
C4304	24591153	PF, 0.015μF
C4305	24763101	EL, 100μF, ±20%, 16V
C4306	24232103	CD, 0.01μF, +80%, –20%
C4307	24232103	CD, 0.01μF, +80%, –20%
C4311	24763471	EL, 470μF, ±20%, 16V
C4401	24232103	CD, 0.01μF, +80%, –20%
C4402	24232103	CD, 0.01μF, +80%, –20%
C4403	24501561	PF, 0.043μF
C4403	24501561	PF, 0.043μF
C4404	24501132	PF, 1300pF
C4404	24501132	PF, 1300pF
C4405	24797479	EL, 4.7μF, ±20%, 50V
C4405	24797479	EL, 4.7μF, ±20%, 50V
C4406	24232103	CD, 0.01μF, +80%, –20%
C4408	24206229	EL, 2.2μF, 50V
C4412	24501132	PF, 1300pF
C4413	24501102	PF, 1000pF
C4414	24232103	CD, 0.01μF, +80%, –20%
C4415	24567474	PF, 0.47μF
C4416	24501161	PF, 160pF
C4417	24591332	PF, 3300pF
C4421	24353330	CD, 33pF
C4466	24820472	PF, 4700pF, 630V
CA13	24436101	CD, 100pF
CA14	24232103	CD, 0.01μF, +80%, –20%
CA30	24436101	CD, 100pF
CA33	24232103	CD, 0.01μF, +80%, –20%
CA42	24794100	EL, 10μF, ±20%, 16V
CA43	24232103	CD, 0.01μF, +80%, –20%
CA44	24232103	CD, 0.01μF, +80%, –20%
CA68	24794100	EL, 10μF, ±20%, 16V
CA69	24232103	CD, 0.01μF, +80%, –20%
CB01	24794470	EL, 47μF, ±20%, 16V
CB90	24232103	CD, 0.01μF, +80%, –20%
CC01	24232103	CD, 0.01μF, +80%, –20%
CC08	24781102	Chip, 1000pF, SL
CC09	24815102	Chip, 1000pF, ±10%, B
CC10	24781101	Chip, 100pF, SL
CC10	24815102	Chip, 1000pF, ±10%, B
CC20	24781102	Chip, 1000pF, SL
CC21	24781470	Chip, 47pF, SL
CC22	24781470	Chip, 47pF, SL
CC25	24212102	CD, 1000pF, ±10%
CC26	24212102	CD, 1000pF, ±10%
CD01	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD02	24092293	Chip, 0.1μF, +80%,–20%, 25V

Location No.	Part No.	Description
CD03	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD04	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD05	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD06	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD07	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD08	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD09	24781470	Chip, 47pF, SL
CD10	24781470	Chip, 47pF, SL
CD11	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD12	24814473	Chip, 0.047μF, +80%,–20%
CD13	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD14	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD15	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD16	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD17	24781470	Chip, 47pF, SL
CD18	24781470	Chip, 47pF, SL
CD20	24815222	Chip, 2200pF, ±10%
CD21	24203100	EL, 10μF, ±20%, 16V
CD22	24203100	EL, 10μF, ±20%, 16V
CD23	24203100	EL, 10μF, ±20%, 16V
CD24	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD25	24815222	Chip, 2200pF, ±10%
CD26	24203100	EL, 10μF, ±20%, 16V
CD27	24203100	EL, 10μF, ±20%, 16V
CD28	24665471	EL, 470μF, ±20%, 10V
CD29	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD30	24203100	EL, 10μF, ±20%, 16V
CD31	24203220	EL, 22μF, ±20%, 16V
CD32	24206010	EL, 1μF, 50V
CD33	24092178	Chip, 0.1μF, ±10%, B
CD34	24092178	Chip, 0.1μF, ±10%, B
CD35	24092178	Chip, 0.1μF, ±10%, B
CD36	24781102	Chip, 1000pF, SL
CD37	24203101	EL, 100μF, ±20%, 16V
CD38	24206010	EL, 1μF, 50V
CD39	24206010	EL, 1μF, 50V
CD40	24206010	EL, 1μF, 50V
CD41	24814103	Chip, 0.01μF, +80%, –20%
CD42	24203101	EL, 100μF, ±20%, 16V
CD43	24206010	EL, 1μF, 50V
CD44	24815273	Chip, 0.027μF, ±10%
CD45	24815822	Chip, 8200pF, ±10%
CD46	24815273	Chip, 0.027μF, ±10%
CD47	24206010	EL, 1μF, 50V
CD48	24815273	Chip, 0.027μF, ±10%
CD49	24815822	Chip, 8200pF, ±10%
CD50	24815822	Chip, 8200pF, ±10%
CD51	24203100	EL, 10μF, ±20%, 16V
CD52	24203100	EL, 10μF, ±20%, 16V
CD53	24203100	EL, 10μF, ±20%, 16V
CD54	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD55	24815222	Chip, 2200pF, ±10%
CD56	24814103	Chip, 0.01μF, +80%, –20%
CD57	24814103	Chip, 0.01μF, +80%, –20%
CD58	24202101	EL, 100μF, 10V
CD59	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD60	24815222	Chip, 2200pF, ±10%
CD61	24203100	EL, 10μF, ±20%, 16V
CD62	24203100	EL, 10μF, ±20%, 16V
CD63	24203100	EL, 10μF, ±20%, 16V
CD64	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD65	24815222	Chip, 2200pF, ±10%
CD66	24203100	EL, 10μF, ±20%, 16V
CD67	24203100	EL, 10μF, ±20%, 16V

Location No.	Part No.	Description
CD68	24202101	EL, 100μF, 10V
CD69	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD70	24815222	Chip, 2200pF, ±10%
CD72	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD73	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD74	24665471	EL, 470μF, ±20%, 10V
CD75	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD76	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD77	24665471	EL, 470μF, ±20%, 10V
CD78	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD79	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD80	24665471	EL, 470μF, ±20%, 10V
CD81	24202221	EL, 220μF, ±20%, 10V
CD82	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD83	24665471	EL, 470μF, ±20%, 10V
CD84	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD85	24665471	EL, 470μF, ±20%, 10V
CD86	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD88	24794100	EL, 10μF, ±20%, 16V
CD89	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD91	24814103	Chip, 0.01μF, +80%, –20%
CD92	24203220	EL, 22μF, ±20%, 16V
CD93	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD94	24092293	Chip, 0.1μF, +80%,–20%, 25V
CD101	24814103	Chip, 0.01μF, +80%, –20%
CD102	24814103	Chip, 0.01μF, +80%, –20%
CD103	24781330	Chip, 33pF, SL
CD104	24781330	Chip, 33pF, SL
CD105	24814103	Chip, 0.01μF, +80%, –20%
CD106	24203100	EL, 10μF, ±20%, 16V
CD203	24815123	Chip, 0.012μF, ±10%
CD204	24815123	Chip, 0.012μF, ±10%
CD205	24085988	EL, 1μF, ±20%, 50V, Non-Polar
CD206	24085988	EL, 1μF, ±20%, 50V, Non-Polar
CD207	24815822	Chip, 8200pF, ±10%
CD208	24815822	Chip, 8200pF, ±10%
CD209	24815473	Chip, 0.047μF, ±10%
CD210	24203100	EL, 10μF, ±20%, 16V
CD211	24814103	Chip, 0.01μF, +80%, –20%
CD212	24814103	Chip, 0.01μF, +80%, –20%
CD213	24814103	Chip, 0.01μF, +80%, –20%
CD214	24203101	EL, 100μF, ±20%, 16V
CD215	24203470	EL, 47μF, ±20%, 16V
CF03	24567104	PF, 0.1μF
CF04	24766101	PF, 0.1μF
CF05	24766101	PF, 0.1μF
CF06	24774220	Chip, 22pF, CH
CF07	24774220	Chip, 22pF, CH
CF08	24567104	PF, 0.1μF
CF09	24567104	PF, 0.1μF
CF10	24206100	EL, 10μF, 50V
CF11	24567104	PF, 0.1μF
CF12	24814103	Chip, 0.01μF, +80%, –20%
CF14	24814103	Chip, 0.01μF, +80%, –20%
CF17	24794101	EL, 100μF, ±20%, 16V
CF18	24794101	EL, 100μF, ±20%, 16V
CF19	24814103	Chip, 0.01μF, +80%, –20%
CQ01	24781102	Chip, 1000pF, SL
CQ02	24781820	Chip, 82pF, SL
CQ03	24781102	Chip, 1000pF, SL
CQ04	24203100	EL, 10μF, ±20%, 16V
CQ05	24591563	PF, 0.056μF

Location No.	Part No.	Description
CQ07	24591203	PF, 0.02μF
CQ08	24567683	PF, 0.068μF
CQ09	24206229	EL, 2.2μF, 50V
CQ10	24591223	PF, 0.022μF
CQ11	24206229	EL, 2.2μF, 50V
CQ12	24781820	Chip, 82pF, SL
CQ13	24669010	EL, 1μF, ±20%, 50V
CQ14	24669010	EL, 1μF, ±20%, 50V
CQ15	24763101	EL, 100μF, ±20%, 16V
CQ16	24814103	Chip, 0.01μF, +80%, –20%
CQ17	24774150	Chip, 15pF, CH
CQ18	24781820	Chip, 82pF, SL
CQ19	24590103	PF, 0.01μF
CQ20	24567104	PF, 0.1μF
CQ21	24794470	EL, 47μF, ±20%, 16V
CQ22	24814103	Chip, 0.01μF, +80%, –20%
CQ23	24567104	PF, 0.1μF
CQ24	24567104	PF, 0.1μF
CQ25	24797100	EL, 10μF, ±20%, 50V
CQ26	24567104	PF, 0.1μF
CQ27	24567104	PF, 0.1μF
CQ28	24797478	EL, 0.47μF, ±20%, 50V
CQ29	24794101	EL, 100μF, ±20%, 16V
CQ30	24814103	Chip, 0.01μF, +80%, –20%
CQ31	24797478	EL, 0.47μF, ±20%, 50V
CQ32	24590103	PF, 0.01μF
CQ33	24567104	PF, 0.1μF
CQ34	24567104	PF, 0.1μF
CQ35	24206478	EL, 0.47μF, 50V
CQ36	24206478	EL, 0.47μF, 50V
CQ37	24669010	EL, 1μF, ±20%, 50V
CQ38	24669010	EL, 1μF, ±20%, 50V
CQ39	24669010	EL, 1μF, ±20%, 50V
CQ40	24781820	Chip, 82pF, SL
CQ41	24781090	Chip, 9pF, SL
CQ42	24781090	Chip, 9pF, SL
CQ43	24781090	Chip, 9pF, SL
CQ45	24781102	Chip, 1000pF, SL
CQ46	24781102	Chip, 1000pF, SL
CR01	24567104	PF, 0.1μF
CR02	24567104	PF, 0.1μF
CR03	24567104	PF, 0.1μF
CR04	24567104	PF, 0.1μF
CR05	24567104	PF, 0.1μF
CR06	24567104	PF, 0.1μF
CR07	24814103	Chip, 0.01μF, +80%, –20%
CR08	24794100	EL, 10μF, ±20%, 16V
CR09	24814103	Chip, 0.01μF, +80%, –20%
CR12	24567104	PF, 0.1μF
CR13	24567104	PF, 0.1μF
CR14	24567104	PF, 0.1μF
CS01	24085944	EL, 2.2μF, ±20%, 50V, Non-Polar
CS02	24085944	EL, 2.2μF, ±20%, 50V, Non-Polar
CS03	24206229	EL, 2.2μF, 50V
CS04	24206229	EL, 2.2μF, 50V
CS05	24206229	EL, 2.2μF, 50V
CS06	24206229	EL, 2.2μF, 50V
CS07	24206229	EL, 2.2μF, 50V
CS08	24206229	EL, 2.2μF, 50V
CS09	24206010	EL, 1μF, 50V
CS12	24781102	Chip, 1000pF, SL
CS13	24781102	Chip, 1000pF, SL

Location No.	Part No.	Description
CS14	24206100	EL, 10μF, 50V
CS15	24206100	EL, 10μF, 50V
CS17	24203100	EL, 10μF, ±20%, 16V
CS18	24203100	EL, 10μF, ±20%, 16V
CS19	24206478	EL, 0.47μF, 50V
CS22	24203100	EL, 10μF, ±20%, 16V
CS23	24203100	EL, 10μF, ±20%, 16V
CV01	24567103	PF, 0.01μF
CV02	24085970	EL, 10μF, ±20%, 16V, Non-Polar
CV03	24203100	EL, 10μF, ±20%, 16V
CV04	24203100	EL, 10μF, ±20%, 16V
CV05	24814103	Chip, 0.01μF, +80%, –20%
CV06	24203100	EL, 10μF, ±20%, 16V
CV08	24763102	EL, 1000μF, ±20%, 16V
CV09	24203100	EL, 10μF, ±20%, 16V
CV10	24085970	EL, 10μF, ±20%, 16V, Non-Polar
CV11	24781331	Chip, 330pF, SL
CV12	24092178	Chip, 0.1μF, ±10%, B
CV13	24814103	Chip, 0.01μF, +80%, –20%
CV14	24781102	Chip, 1000pF, SL
CV15	24781102	Chip, 1000pF, SL
CV16	24781102	Chip, 1000pF, SL
CV17	24781102	Chip, 1000pF, SL
CV18	24781102	Chip, 1000pF, SL
CV19	24781102	Chip, 1000pF, SL
CV20	24781430	Chip, 43pF, SL
CV23	24203101	EL, 100μF, ±20%, 16V
CV24	24814103	Chip, 0.01μF, +80%, –20%
CV25	24763471	EL, 470μF, ±20%, 16V
CV31	24781102	Chip, 1000pF, SL
CV34	24781102	Chip, 1000pF, SL
CV35	24814103	Chip, 0.01μF, +80%, –20%
CV37	24781102	Chip, 1000pF, SL
CV39	24203101	EL, 100μF, ±20%, 16V
CV40	24814103	Chip, 0.01μF, +80%, –20%
CV46	24212332	CD, 3300pF, ±10%
CV47	24212332	CD, 3300pF, ±10%
CV48	24212102	CD, 1000pF, ±10%
CV65	24203101	EL, 100μF, ±20%, 16V
CV66	24203101	EL, 100μF, ±20%, 16V
CV67	24763471	EL, 470μF, ±20%, 16V
CV68	24763471	EL, 470μF, ±20%, 16V
CV78	24781330	Chip, 33pF, SL
CX201	24774100	Chip, 10pF, ±0.5pF, CH
CX202	24774101	Chip, 100pF, CH
CX203	24774560	Chip, 56pF, CH
CX204	24794221	EL, 220μF, ±20%, 16V
CX205	24092294	Chip, 0.33μF, 16V
CX207	24774101	Chip, 100pF, CH
CX208	24774271	Chip, 270pF, CH
CX209	24092178	Chip, 0.1μF, ±10%, B
CX210	24774101	Chip, 100pF, CH
CX211	24774271	Chip, 270pF, CH
CX212	24793471	EL, 470μF, ±20%, 10V
CX213	24092294	Chip, 0.33μF, 16V
CX214	24814103	Chip, 0.01μF, +80%, –20%
CX215	24206479	EL, 4.7μF, 50V
CX216	24814103	Chip, 0.01μF, +80%, –20%
CX217	24092294	Chip, 0.33μF, 16V
CX218	24206479	EL, 4.7μF, 50V
CX219	24092441	Chip, 1μF, +80%, –20%, 16V
CX220	24206479	EL, 4.7μF, 50V

Location No.	Part No.	Description
CX221	24092294	Chip, 0.33μF, 16V
CX222	24092294	Chip, 0.33μF, 16V
CX223	24815473	Chip, 0.047μF, ±10%
CX224	24793471	EL, 470μF, ±20%, 10V
CX225	24092178	Chip, 0.1μF, ±10%, B
CX229	24092178	Chip, 0.1μF, ±10%, B
CX230	24092178	Chip, 0.1μF, ±10%, B
CX231	24092178	Chip, 0.1μF, ±10%, B
CX232	24092178	Chip, 0.1μF, ±10%, B
CX233	24092178	Chip, 0.1μF, ±10%, B
CX235	24202221	EL, 220μF, ±20%, 10V
CX236	24092178	Chip, 0.1μF, ±10%, B
CX237	24092178	Chip, 0.1μF, ±10%, B
CX238	24092178	Chip, 0.1μF, ±10%, B
CX239	24203100	EL, 10μF, ±20%, 16V
CX240	24774560	Chip, 56pF, CH
CX241	24774030	Chip, 3pF, CH
CX242	24203100	EL, 10μF, ±20%, 16V
CX243	24774560	Chip, 56pF, CH
CX244	24781100	Chip, 10pF, ±0.5%, SL
CX245	24203100	EL, 10μF, ±20%, 16V
CX246	24774560	Chip, 56pF, CH
CX247	24774100	Chip, 10pF, ±0.5pF, CH
CX248	24092178	Chip, 0.1μF, ±10%, B
CX249	24794221	EL, 220μF, ±20%, 16V
CX252	24092178	Chip, 0.1μF, ±10%, B
CX253	24092178	Chip, 0.1μF, ±10%, B
CX254	24774120	Chip, 12pF, CH
CX255	24774120	Chip, 12pF, CH
CX256	24092178	Chip, 0.1μF, ±10%, B
CX257	24092178	Chip, 0.1μF, ±10%, B
CX258	24092178	Chip, 0.1μF, ±10%, B
CX259	24092178	Chip, 0.1μF, ±10%, B
CX260	24092178	Chip, 0.1μF, ±10%, B
CX261	24206010	EL, 1μF, 50V
CX262	24206100	EL, 10μF, 50V
CX263	24092178	Chip, 0.1μF, ±10%, B
CX265	24206010	EL, 1μF, 50V
CX266	24203100	EL, 10μF, ±20%, 16V
CX267	24815473	Chip, 0.047μF, ±10%
CX269	24206010	EL, 1μF, 50V
CX270	24203100	EL, 10μF, ±20%, 16V
CX271	24815473	Chip, 0.047μF, ±10%
CX272	24774470	Chip, 47pF, CH
CX273	24774470	Chip, 47pF, CH
CX277	24781060	Chip, 6pF, CH
CX278	24781330	Chip, 33pF, SL
CX279	24781330	Chip, 33pF, SL
CX280	24092178	Chip, 0.1μF, ±10%, B
CX301	24781220	Chip, 22pF, SL
CX302	24781820	Chip, 82pF, SL
CX303	24781820	Chip, 82pF, SL
CX304	24781220	Chip, 22pF, SL
CX305	24781220	Chip, 22pF, SL
CX306	24781220	Chip, 22pF, SL
CX307	24794221	EL, 220μF, ±20%, 16V
CX308	24092178	Chip, 0.1μF, ±10%, B
CX309	24793471	EL, 470μF, ±20%, 10V
CX310	24092178	Chip, 0.1μF, ±10%, B
CX319	24203470	EL, 47μF, ±20%, 16V
CX320	24092178	Chip, 0.1μF, ±10%, B
CX323	24092178	Chip, 0.1μF, ±10%, B
CX326	24781330	Chip, 33pF, SL
CX329	24206010	EL, 1μF, 50V

Location No.	Part No.	Description
CX400	24781221	Chip, 220pF, SL
CX401	24781330	Chip, 33pF, SL
CX402	24781330	Chip, 33pF, SL
CX403	24781221	Chip, 220pF, SL
CX404	24781221	Chip, 220pF, SL
CX405	24781221	Chip, 220pF, SL
CX406	24781221	Chip, 220pF, SL
CX407	24781331	Chip, 330pF, SL
CX408	24781221	Chip, 220pF, SL
CX415	24781221	Chip, 220pF, SL
CX501	24092178	Chip, 0.1μF, ±10%, B
CX502	24092178	Chip, 0.1μF, ±10%, B
CX503	24092178	Chip, 0.1μF, ±10%, B
CX504	24092178	Chip, 0.1μF, ±10%, B
CX505	24092178	Chip, 0.1μF, ±10%, B
CX506	24092178	Chip, 0.1μF, ±10%, B
CX507	24092178	Chip, 0.1μF, ±10%, B
CX511	24202470	EL, 47μF, ±20%, 10V
CX512	24092178	Chip, 0.1μF, ±10%, B
CX513	24815123	Chip, 0.012μF, ±10%
CX514	24815472	Chip, 4700pF, ±10%, B
CX521	24092178	Chip, 0.1μF, ±10%, B
CX531	24092178	Chip, 0.1μF, ±10%, B
CX532	24092178	Chip, 0.1μF, ±10%, B
CX533	24781330	Chip, 33pF, SL
CX534	24203100	EL, 10μF, ±20%, 16V
CX535	24202101	EL, 100μF, 10V
CX601	24092178	Chip, 0.1μF, ±10%, B
CX602	24092178	Chip, 0.1μF, ±10%, B
CX603	24092178	Chip, 0.1μF, ±10%, B
CX604	24092178	Chip, 0.1μF, ±10%, B
CX605	24762102	EL, 1000μF, ±20%, 10V
CX611	24092178	Chip, 0.1μF, ±10%, B
CX612	24202101	EL, 100μF, 10V
CX613	24092178	Chip, 0.1μF, ±10%, B
CX621	24092178	Chip, 0.1μF, ±10%, B
CX622	24092178	Chip, 0.1μF, ±10%, B
CX623	24092178	Chip, 0.1μF, ±10%, B
CX624	24092178	Chip, 0.1μF, ±10%, B
CX641	24092178	Chip, 0.1μF, ±10%, B
CX642	24092178	Chip, 0.1μF, ±10%, B
CX643	24092178	Chip, 0.1μF, ±10%, B
CX644	24092178	Chip, 0.1μF, ±10%, B
CX652	24774221	Chip, 220pF, CH
CX656	24774102	Chip, 1000pF, CH
CZ08	24203100	EL, 10μF, ±20%, 16V
CZ09	24781220	Chip, 22pF, SL
CZ10	24781180	Chip, 18pF, SL
CZ11	24781100	Chip, 10pF, ±0.5%, SL
CZ12	24814103	Chip, 0.01μF, +80%, −20%
CZ13	24092178	Chip, 0.1μF, ±10%, B
CZ14	24206100	EL, 10μF, 50V
CZ15	24814103	Chip, 0.01μF, +80%, −20%
CZ16	24206010	EL, 1μF, 50V
CZ17	24814103	Chip, 0.01μF, +80%, −20%
CZ19	24781181	Chip, 180pF, SL
CZ20	24567103	PF, 0.01μF
CZ21	24781122	Chip, 1200pF, SL
CZ22	24206100	EL, 10μF, 50V
CZ23	24092178	Chip, 0.1μF, ±10%, B
CZ24	24092178	Chip, 0.1μF, ±10%, B
CZ25	24763471	EL, 470μF, ±20%, 16V
CZ26	24814103	Chip, 0.01μF, +80%, −20%
CZ28	24814103	Chip, 0.01μF, +80%, −20%

Location No.	Part No.	Description
CZ29	24092178	Chip, 0.1μF, ±10%, B
CZ30	24206100	EL, 10μF, 50V
CZ32	24781120	Chip, 12pF, SL
CZ33	24781120	Chip, 12pF, SL
CZ34	24781120	Chip, 12pF, SL
CZ35	24781120	Chip, 12pF, SL
CZ36	24092178	Chip, 0.1μF, ±10%, B
CZ45	24781100	Chip, 10pF, ±0.5%, SL
CZ50	24814103	Chip, 0.01μF, +80%, -20%
RESISTORS		
R001	24000824	Chip, Jumper, 2125 type
R101	24382223	OMF, 22k ohm, 1W
R102	24366104	CF, 100k ohm
R201	24872681	Chip, 680 ohm, 1/16W
R202	24872821	Chip, 820 ohm, 1/16W
R204	24872104	Chip, 100k ohm, 1/16W
R205	24872101	Chip, 100 ohm, 1/16W
R206	24872222	Chip, 2200 ohm, 1/16W
R207	24872101	Chip, 100 ohm, 1/16W
R208	24366103	CF, 10k ohm
R208	24872101	Chip, 100 ohm, 1/16W
R209	24366103	CF, 10k ohm
R209	24872101	Chip, 100 ohm, 1/16W
R211	24366473	CF, 47k ohm
R215	24872102	Chip, 1k ohm, 1/16W
R216	24872103	Chip, 10k ohm, 1/16W
R217	24366392	CF, 3900 ohm
R219	24366393	CF, 39k ohm
R220	24872102	Chip, 1k ohm, 1/16W
R221	24872102	Chip, 1k ohm, 1/16W
R223	24872102	Chip, 1k ohm, 1/16W
R227	24366223	CF, 22k ohm
R229	24872472	Chip, 4700 ohm, 1/16W
R235	24872472	Chip, 4700 ohm, 1/16W
R236	24872102	Chip, 1k ohm, 1/16W
R237	24872103	Chip, 10k ohm, 1/16W
R240	24366102	CF, 1k ohm
R273	24872473	Chip, 47k ohm, 1/16W
R274	24872102	Chip, 1k ohm, 1/16W
R275	24872101	Chip, 100 ohm, 1/16W
R276	24872683	Chip, 68k ohm, 1/16W
R277	24872103	Chip, 10k ohm, 1/16W
R301	24366102	CF, 1k ohm
R303	24321109	MF, 1 ohm, 1/2W
R304	24366753	CF, 75k ohm
R305	24322628	MF, 0.62 ohm, 1W
R312	24366153	CF, 15k ohm
R313	24366823	CF, 82k ohm
R315	24366684	CF, 680k ohm
R316	24366474	CF, 470k ohm
R318	24366471	CF, 470 ohm
R319	24366471	CF, 470 ohm
R320	24366101	CF, 100 ohm
R325	24366103	CF, 10k ohm
R327	24339339	MF, 3.3 ohm, 2W
R329	24366103	CF, 10k ohm
R330	24366102	CF, 1k ohm
R331	24366334	CF, 330k ohm
R332	24553331	OMF, 330 ohm, 1W
R333	24366684	CF, 680k ohm
R335	24366393	CF, 39k ohm
R336	24383271	OMF, 270 ohm, 2W
R341	24366912	CF, 9100 ohm

Location No.	Part No.	Description
R343	24366183	CF, 18k ohm
R344	24383271	OMF, 270 ohm, 2W
R360	24366103	CF, 10k ohm
R370	24338159	MF, 1.5 ohm, 1W
R371	24366562	CF, 5600 ohm
R372	24366392	CF, 3900 ohm
R373	24366182	CF, 1800 ohm
R374	24366153	CF, 15k ohm
R399	24366684	CF, 680k ohm
R401	24872391	Chip, 390 ohm, 1/16W
R403	24872392	Chip, 3900 ohm, 1/16W
R405	24553682	OMF, 6800 ohm, 1W
R407	24872103	Chip, 10k ohm, 1/16W
R411	24366560	CF, 56 ohm
R415	24553561	OMF, 560 ohm, 1W
R416	24381563	OMF, 56k ohm, 1/2W
R417	24510101	Cement, 100 ohm, 5W
R424	24366152	CF, 1500 ohm
R425	24366182	CF, 1800 ohm
R426	24366751	CF, 750 ohm
R427	24366392	CF, 3900 ohm
R428	24366561	CF, 560 ohm
R429	24552150	OMF, 15 ohm, 1/2W
R441	24383561	OMF, 560 ohm, 2W
R450	24321229	MF, 2.2 ohm, 1/2W
R460	24552332	OMF, 3300 ohm, 1/2W
R461	24552182	OMF, 1800 ohm, 1/2W
R463	24323229	MF, 2.2 ohm, 2W
R464	24366273	CF, 27k ohm
R465	24366114	CF, 110k ohm
R466	24366392	CF, 3900 ohm
R469	24000211	FR, 15 ohm, 1/2W
R470	24339568	OMF, 0.56 ohm, 2W
R471	24531271	FR, 270 ohm, 1/2W
R473	24366103	CF, 10k ohm
R474	24366473	CF, 47k ohm
R479	24531680	FR, 68 ohm, 1/2W
R480	24552222	OMF, 2200 ohm, 1/2W
R481	24366392	CF, 3900 ohm
R482	24366183	CF, 18k ohm
R487	24366154	CF, 150k ohm
R488	24366154	CF, 150k ohm
R490	24366101	CF, 100 ohm
R491	24366101	CF, 100 ohm
R492	24366272	CF, 2700 ohm
R501	24872223	Chip, 22k ohm, 1/16W
R502	24872101	Chip, 100 ohm, 1/16W
R503	24872101	Chip, 100 ohm, 1/16W
R505	24872102	Chip, 1k ohm, 1/16W
R506	24872103	Chip, 10k ohm, 1/16W
R508	24872102	Chip, 1k ohm, 1/16W
R509	24872102	Chip, 1k ohm, 1/16W
R510	24872102	Chip, 1k ohm, 1/16W
R511	24872101	Chip, 100 ohm, 1/16W
R512	24872101	Chip, 100 ohm, 1/16W
R513	24366472	CF, 4700 ohm
R514	24366472	CF, 4700 ohm
R516	24872101	Chip, 100 ohm, 1/16W
R517	24872101	Chip, 100 ohm, 1/16W
R518	24872472	Chip, 4700 ohm, 1/16W
R519	24872101	Chip, 100 ohm, 1/16W
R520	24872103	Chip, 10k ohm, 1/16W
R521	24872223	Chip, 22k ohm, 1/16W
R522	24872473	Chip, 47k ohm, 1/16W

Location No.	Part No.	Description
R530	24872223	Chip, 22k ohm, 1/16W
R531	24872103	Chip, 10k ohm, 1/16W
R601	24366122	CF, 1200 ohm
R602	24366122	CF, 1200 ohm
R603	24366104	CF, 100k ohm
R604	24366104	CF, 100k ohm
R606	24366229	CF, 2.2 ohm
R609	24366563	CF, 56k ohm
R610	24366103	CF, 10k ohm
R611	24366103	CF, 10k ohm
R612	24366103	CF, 10k ohm
R613	24366331	CF, 330 ohm
R614	24366103	CF, 10k ohm
R615	24366229	CF, 2.2 ohm
R620	24366203	CF, 20k ohm
R621	24366203	CF, 20k ohm
R622	24366272	CF, 2700 ohm
R623	24366272	CF, 2700 ohm
R626	24366229	CF, 2.2 ohm
R627	24366229	CF, 2.2 ohm
R628	24366104	CF, 100k ohm
R629	24366223	CF, 22k ohm
R630	24366223	CF, 22k ohm
R631	24366472	CF, 4700 ohm
R632	24366223	CF, 22k ohm
R633	24366223	CF, 22k ohm
R634	24366393	CF, 39k ohm
R635	24366104	CF, 100k ohm
R636	24366563	CF, 56k ohm
R637	24366563	CF, 56k ohm
R638	24366223	CF, 22k ohm
R639	24366821	CF, 820 ohm
R640	24366223	CF, 22k ohm
R641	24366109	CF, 1 ohm
R642	24366223	CF, 22k ohm
R643	24366102	CF, 1k ohm
R644	24366104	CF, 100k ohm
R645	24366273	CF, 27k ohm
R646	24366104	CF, 100k ohm
R647	24366104	CF, 100k ohm
R648	24366104	CF, 100k ohm
R649	24366223	CF, 22k ohm
R650	24366821	CF, 820 ohm
R651	24366273	CF, 27k ohm
R652	24366109	CF, 1 ohm
R653	24366203	CF, 20k ohm
R654	24366203	CF, 20k ohm
R660	24366103	CF, 10k ohm
R661	24366223	CF, 22k ohm
R661	24552391	OMF, 390 ohm, 1/2W
R662	24366224	CF, 220k ohm
R662	24552391	OMF, 390 ohm, 1/2W
R663	24366562	CF, 5600 ohm
R664	24366472	CF, 4700 ohm
R665	24366224	CF, 220k ohm
R671	24366102	CF, 1k ohm
R672	24366102	CF, 1k ohm
R673	24366102	CF, 1k ohm
R674	24366102	CF, 1k ohm
R676	24872223	Chip, 22k ohm, 1/16W
R677	24872223	Chip, 22k ohm, 1/16W
R678	24872223	Chip, 22k ohm, 1/16W
R679	24872223	Chip, 22k ohm, 1/16W
R680	24366104	CF, 100k ohm

Location No.	Part No.	Description
R680	24872223	Chip, 22k ohm, 1/16W
R681	24872223	Chip, 22k ohm, 1/16W
R683	24366223	CF, 22k ohm
R684	24366223	CF, 22k ohm
R685	24366331	CF, 330 ohm
R686	24366224	CF, 220k ohm
R690	24872681	Chip, 680 ohm, 1/16W
R691	24872681	Chip, 680 ohm, 1/16W
R692	24872681	Chip, 680 ohm, 1/16W
R693	24872681	Chip, 680 ohm, 1/16W
R702	24552221	OMF, 220 ohm, 1/2W
R712	24366101	CF, 100 ohm
R715	24366393	CF, 39k ohm
R716	24366273	CF, 27k ohm
R717	24366333	CF, 33k ohm
R718	24366102	CF, 1k ohm
R722	24552471	OMF, 470 ohm, 1/2W
R723	24366151	CF, 150 ohm
R724	24366121	CF, 120 ohm
R725	24366182	CF, 1800 ohm
R730	24552100	OMF, 10 ohm, 1/2W
R731	24553331	OMF, 330 ohm, 1W
R732	24366220	CF, 22 ohm
R733	24366683	CF, 68k ohm
R734	24366220	CF, 22 ohm
R735	24366683	CF, 68k ohm
R736	24366560	CF, 56 ohm
R737	24366152	CF, 1500 ohm
R738	24366123	CF, 12k ohm
R739	24366152	CF, 1500 ohm
R740	24366560	CF, 56 ohm
R741	24366279	CF, 2.7 ohm
R742	24366279	CF, 2.7 ohm
R743	24554181	OMF, 180 ohm, 2W
R744	24366122	CF, 1200 ohm
R745	24366122	CF, 1200 ohm
⚠R801	24009954	Metal-Glazed Resistor, 2.2M ohm, 1/2W
R802	24321568	MF, 0.56 ohm, 1/2W
R803	24382683	OMF, 68k ohm, 1W
R805	24552101	OMF, 100 ohm, 1/2W
R806	24552392	OMF, 3900 ohm, 1/2W
R808	24019340	PTC Thermistor, 18 ohm
R810	24007489	Cement, 3.0 ohm, 20W
R811	24568271	Cement, 270 ohm, 7W
R814	24366122	CF, 1200 ohm
R815	24552102	OMF, 1k ohm, 1/2W
R816	24323689	MF, 6.8 ohm, 2W
R818	24322228	MF, 0.22 ohm, 1W
R819	24321229	MF, 2.2 ohm, 1/2W
R821	24366101	CF, 100 ohm
R822	24552103	OMF, 10k ohm, 1/2W
R823	24366272	CF, 2700 ohm
R824	24569101	Cement, 100 ohm, 10W
R827	24366681	CF, 680 ohm
R828	24366821	CF, 820 ohm
R829	24322228	MF, 0.22 ohm, 1W
R830	24366472	CF, 4700 ohm
R831	24366471	CF, 470 ohm
R832	24366471	CF, 470 ohm
R833	24366471	CF, 470 ohm
R834	24366222	CF, 2200 ohm
R841	24531120	FR, 12 ohm, 1/2W
R842	24552392	OMF, 3900 ohm, 1/2W

Location No.	Part No.	Description
R846	24366561	CF, 560 ohm
R847	24366472	CF, 4700 ohm
R860	24366102	CF, 1k ohm
R861	24367273	CF, 27k ohm, ±2%
R862	24366562	CF, 5600 ohm
R863	24366101	CF, 100 ohm
R864	24552220	OMF, 22 ohm, 1/2W
R865	24366272	CF, 2700 ohm
R866	24366332	CF, 3300 ohm
R867	24366103	CF, 10k ohm
R868	24568150	Cement, 15 ohm, 7W
R869	24322278	MF, 0.27 ohm, 1W
R870	24322228	MF, 0.22 ohm, 1W
R871	24366621	CF, 620 ohm
R872	24382683	OMF, 68k ohm, 1W
R873	24568229	Cement, 2.2 ohm, 7W
R874	24531330	FR, 33 ohm, 1/2W
R875	24366332	CF, 3300 ohm
R876	24366562	CF, 5600 ohm
R877	24366562	CF, 5600 ohm
R885	24366104	CF, 100k ohm
R886	24366683	CF, 68k ohm
R887	24366332	CF, 3300 ohm
R890	24553333	OMF, 33k ohm, 1W
R893	24569103	Cement, 10k ohm, 10W
R894	24366334	CF, 330k ohm
R895	24366393	CF, 39k ohm
R896	24366562	CF, 5600 ohm
R897	24366334	CF, 330k ohm
⚠ R899	24005007	Metal-Glazed Resistor, 8.2M ohm, 1W
R901	24376821	CF, 820 ohm, 1/2W
R902	24376821	CF, 820 ohm, 1/2W
R903	24376821	CF, 820 ohm, 1/2W
R904	24366472	CF, 4700 ohm
R905	24366150	CF, 15 ohm
R906	24366102	CF, 1k ohm
R907	24366102	CF, 1k ohm
R908	24366102	CF, 1k ohm
R909	24366222	CF, 2200 ohm
R912	24366102	CF, 1k ohm
R914	24366101	CF, 100 ohm
R915	24366560	CF, 56 ohm
R916	24366470	CF, 47 ohm
R917	24366271	CF, 270 ohm
R918	24366100	CF, 10 ohm
R919	24366102	CF, 1k ohm
R920	24000940	FR, 2 ohm, 2W
R921	24366101	CF, 100 ohm
R922	24366560	CF, 56 ohm
R924	24366100	CF, 10 ohm
R925	24366271	CF, 270 ohm
R926	24366102	CF, 1k ohm
R928	24366101	CF, 100 ohm
R929	24366560	CF, 56 ohm
R930	24366100	CF, 10 ohm
R932	24366332	CF, 3300 ohm
R933	24366750	CF, 75 ohm
R934	24366391	CF, 390 ohm
R935	24366821	CF, 820 ohm
R936	24366750	CF, 75 ohm
R937	24366271	CF, 270 ohm
R939	24366680	CF, 68 ohm
R942	24366392	CF, 3900 ohm

Location No.	Part No.	Description
R943	24366392	CF, 3900 ohm
R944	24366392	CF, 3900 ohm
R945	24366470	CF, 47 ohm
R946	24366470	CF, 47 ohm
R950	24060356	VR, 20M ohm, 0.6W
R960	24383153	OMF, 15k ohm, 2W
R961	24383153	OMF, 15k ohm, 2W
R962	24383153	OMF, 15k ohm, 2W
R963	24383153	OMF, 15k ohm, 2W
R964	24383153	OMF, 15k ohm, 2W
R965	24383153	OMF, 15k ohm, 2W
R966	24383153	OMF, 15k ohm, 2W
R967	24383153	OMF, 15k ohm, 2W
R968	24383153	OMF, 15k ohm, 2W
R969	24366101	CF, 100 ohm
R970	24366101	CF, 100 ohm
R971	24366101	CF, 100 ohm
R977	24366681	CF, 680 ohm
R980	24366471	CF, 470 ohm
R981	24366471	CF, 470 ohm
R982	24366682	CF, 6800 ohm
R983	24366222	CF, 2200 ohm
R984	24366821	CF, 820 ohm
R985	24366471	CF, 470 ohm
R986	24366681	CF, 680 ohm
R987	24366681	CF, 680 ohm
R988	24366472	CF, 4700 ohm
R989	24366822	CF, 8200 ohm
R990	24366222	CF, 2200 ohm
R991	24366681	CF, 680 ohm
R4034	24366332	CF, 3300 ohm
R4301	24366222	CF, 2200 ohm
R4302	24366103	CF, 10k ohm
R4303	24019090	MF, 330k ohm, 1/4W
R4305	24366472	CF, 4700 ohm
R4306	24366393	CF, 39k ohm
R4350	24000249	MF, 47k ohm, ±1%, 1/4W
R4401	24366103	CF, 10k ohm
R4402	24366222	CF, 2200 ohm
R4403	24000639	MF, 22k ohm, ±1%, 1/4W
R4404	24000364	MF, 1800 ohm, ±1%, 1/4W
R4405	24000247	MF, 39k ohm, ±1%, 1/4W
R4406	24000220	MF, 390k ohm, ±1%, 1/4w
R4408	24000637	MF, 15k ohm, ±1%, 1/4W
R4409	24000361	MF, 1300 ohm, ±1%, 1/4W
R4410	24552470	OMF, 47 ohm, 1/2W
R4411	24366472	CF, 4700 ohm
R4412	24366103	CF, 10k ohm
R4413	24366132	CF, 1300 ohm
R4420	24000639	MF, 22k ohm, ±1%, 1/4W
R4421	24366103	CF, 10k ohm
R4422	24366473	CF, 47k ohm
R4423	24366223	CF, 22k ohm
R4424	24366103	CF, 10k ohm
R4450	24066878	VR, 2k ohm, 0.3W
RA02	24366102	CF, 1k ohm
RA03	24366102	CF, 1k ohm
RA04	24366102	CF, 1k ohm
RA05	24366102	CF, 1k ohm
RA07	24366102	CF, 1k ohm
RA08	24366102	CF, 1k ohm
RA10	24366101	CF, 100 ohm
RA11	24366472	CF, 4700 ohm
RA12	24366472	CF, 4700 ohm

Location No.	Part No.	Description
RA13	24366153	CF, 15k ohm
RA14	24366153	CF, 15k ohm
RA15	24366103	CF, 10k ohm
RA16	24366102	CF, 1k ohm
RA17	24366102	CF, 1k ohm
RA18	24366102	CF, 1k ohm
RA26	24366102	CF, 1k ohm
RA28	24366102	CF, 1k ohm
RA29	24366102	CF, 1k ohm
RA31	24366561	CF, 560 ohm
RA32	24366222	CF, 2200 ohm
RA33	24366103	CF, 10k ohm
RA35	24366102	CF, 1k ohm
RA36	24366472	CF, 4700 ohm
RA37	24366101	CF, 100 ohm
RA38	24366101	CF, 100 ohm
RA39	24366102	CF, 1k ohm
RA40	24366331	CF, 330 ohm
RA41	24366273	CF, 27k ohm
RA61	24366103	CF, 10k ohm
RA62	24366103	CF, 10k ohm
RA64	24366103	CF, 10k ohm
RA65	24366103	CF, 10k ohm
RA66	24366103	CF, 10k ohm
RA67	24366472	CF, 4700 ohm
RA70	24366333	CF, 33k ohm
RA71	24366683	CF, 68k ohm
RA72	24366223	CF, 22k ohm
RA73	24366103	CF, 10k ohm
RA75	24366333	CF, 33k ohm
RA76	24366103	CF, 10k ohm
RA78	24366102	CF, 1k ohm
RA91	24366223	CF, 22k ohm
RB01	24366271	CF, 270 ohm
RB02	24366271	CF, 270 ohm
RB03	24366101	CF, 100 ohm
RB09	24366470	CF, 47 ohm
RB10	24366101	CF, 100 ohm
RB11	24366103	CF, 10k ohm
RB30	24366103	CF, 10k ohm
RB40	24366103	CF, 10k ohm
RB41	24366182	CF, 1800 ohm
RB42	24366102	CF, 1k ohm
RB43	24366103	CF, 10k ohm
RB44	24366103	CF, 10k ohm
RB45	24366101	CF, 100 ohm
RB81	24366122	CF, 1200 ohm
RB82	24366123	CF, 12k ohm
RB83	24366123	CF, 12k ohm
RB84	24366562	CF, 5600 ohm
RB90	24366392	CF, 3900 ohm
RB91	24366473	CF, 47k ohm
RB92	24366271	CF, 270 ohm
RB93	24366271	CF, 270 ohm
RB94	24366222	CF, 2200 ohm
RB95	24366222	CF, 2200 ohm
RB96	24366273	CF, 27k ohm
RB97	24366273	CF, 27k ohm
RB98	24366102	CF, 1k ohm
RD01	24871101	Chip, 100 ohm, 1/8W
RD03	24872101	Chip, 100 ohm, 1/16W
RD04	24872101	Chip, 100 ohm, 1/16W
RD05	24872101	Chip, 100 ohm, 1/16W
RD06	24872101	Chip, 100 ohm, 1/16W

Location No.	Part No.	Description
RD09	24872101	Chip, 100 ohm, 1/16W
RD10	24872101	Chip, 100 ohm, 1/16W
RD11	24872222	Chip, 2200 ohm, 1/16W
RD12	24872103	Chip, 10k ohm, 1/16W
RD13	24872101	Chip, 100 ohm, 1/16W
RD21	24872221	Chip, 220 ohm, 1/16W
RD23	24872221	Chip, 220 ohm, 1/16W
RD27	24872101	Chip, 100 ohm, 1/16W
RD28	24872101	Chip, 100 ohm, 1/16W
RD29	24872101	Chip, 100 ohm, 1/16W
RD30	24872223	Chip, 22k ohm, 1/16W
RD31	24872223	Chip, 22k ohm, 1/16W
RD32	24872223	Chip, 22k ohm, 1/16W
RD33	24872101	Chip, 100 ohm, 1/16W
RD34	24872102	Chip, 1k ohm, 1/16W
RD35	24872102	Chip, 1k ohm, 1/16W
RD36	24872101	Chip, 100 ohm, 1/16W
RD39	24872101	Chip, 100 ohm, 1/16W
RD40	24872101	Chip, 100 ohm, 1/16W
RD41	24872223	Chip, 22k ohm, 1/16W
RD42	24872101	Chip, 100 ohm, 1/16W
RD43	24872101	Chip, 100 ohm, 1/16W
RD44	24872101	Chip, 100 ohm, 1/16W
RD51	24872221	Chip, 220 ohm, 1/16W
RD53	24872221	Chip, 220 ohm, 1/16W
RD54	24872822	Chip, 8200 ohm, 1/16W
RD55	24872822	Chip, 8200 ohm, 1/16W
RD56	24872273	Chip, 27k ohm, 1/16W
RD57	24872273	Chip, 27k ohm, 1/16W
RD58	24872822	Chip, 8200 ohm, 1/16W
RD59	24872822	Chip, 8200 ohm, 1/16W
RD61	24872221	Chip, 220 ohm, 1/16W
RD63	24872221	Chip, 220 ohm, 1/16W
RD64	24872822	Chip, 8200 ohm, 1/16W
RD65	24872822	Chip, 8200 ohm, 1/16W
RD66	24872273	Chip, 27k ohm, 1/16W
RD67	24872273	Chip, 27k ohm, 1/16W
RD68	24872822	Chip, 8200 ohm, 1/16W
RD69	24872822	Chip, 8200 ohm, 1/16W
RD71	24366100	CF, 10 ohm
RD72	24871122	Chip, 1200 ohm, 1/8W
RD73	24871152	Chip, 1500 ohm, 1/8W
RD75	24366100	CF, 10 ohm
RD79	24366100	CF, 10 ohm
RD81	24321109	MF, 1 ohm, 1/2W
RD82	24871151	Chip, 150 ohm, 1/8W
RD85	24872151	Chip, 150 ohm, 1/16W
RD87	24872151	Chip, 150 ohm, 1/16W
RD88	24872222	Chip, 2200 ohm, 1/16W
RD89	24872151	Chip, 150 ohm, 1/16W
RD92	24872473	Chip, 47k ohm, 1/16W
RD93	24872222	Chip, 2200 ohm, 1/16W
RD94	24872101	Chip, 100 ohm, 1/16W
RD101	24872331	Chip, 330 ohm, 1/16W
RD102	24872331	Chip, 330 ohm, 1/16W
RD103	24872331	Chip, 330 ohm, 1/16W
RD104	24872331	Chip, 330 ohm, 1/16W
RD105	24872472	Chip, 4700 ohm, 1/16W
RD106	24872472	Chip, 4700 ohm, 1/16W
RD107	24872472	Chip, 4700 ohm, 1/16W
RD108	24872472	Chip, 4700 ohm, 1/16W
RD109	24872472	Chip, 4700 ohm, 1/16W
RD110	24872472	Chip, 4700 ohm, 1/16W
RD111	24872101	Chip, 100 ohm, 1/16W

Location No.	Part No.	Description
RD112	24872101	Chip, 100 ohm, 1/16W
RD113	24872472	Chip, 4700 ohm, 1/16W
RD201	24872101	Chip, 100 ohm, 1/16W
RD202	24872101	Chip, 100 ohm, 1/16W
RD203	24872392	Chip, 3900 ohm, 1/16W
RD204	24871392	Chip, 3900 ohm, 1/8W
RD205	24872101	Chip, 100 ohm, 1/16W
RD206	24872101	Chip, 100 ohm, 1/16W
RD207	24872474	Chip, 470k ohm, 1/16W
RD208	24872472	Chip, 4700 ohm, 1/16W
RD209	24872472	Chip, 4700 ohm, 1/16W
RF01	24872222	Chip, 2200 ohm, 1/16W
RF03	24872472	Chip, 4700 ohm, 1/16W
RF04	24872472	Chip, 4700 ohm, 1/16W
RF06	24872102	Chip, 1k ohm, 1/16W
RF08	24872100	Chip, 10 ohm, 1/16W
RF09	24872100	Chip, 10 ohm, 1/16W
RF10	24872100	Chip, 10 ohm, 1/16W
RF11	24872103	Chip, 10k ohm, 1/16W
RF12	24872101	Chip, 100 ohm, 1/16W
RF13	24872101	Chip, 100 ohm, 1/16W
RF14	24872101	Chip, 100 ohm, 1/16W
RF15	24872103	Chip, 10k ohm, 1/16W
RF16	24872471	Chip, 470 ohm, 1/16W
RF20	24872222	Chip, 2200 ohm, 1/16W
RF21	24872471	Chip, 470 ohm, 1/16W
RF22	24872471	Chip, 470 ohm, 1/16W
RF26	24872102	Chip, 1k ohm, 1/16W
RQ01	24872102	Chip, 1k ohm, 1/16W
RQ02	24872475	Chip, 4.7M ohm, 1/16W
RQ03	24872102	Chip, 1k ohm, 1/16W
RQ04	24872511	Chip, 510 ohm, 1/16W
RQ05	24872471	Chip, 470 ohm, 1/16W
RQ06	24872471	Chip, 470 ohm, 1/16W
RQ07	24872103	Chip, 10k ohm, 1/16W
RQ08	24872102	Chip, 1k ohm, 1/16W
RQ09	24872102	Chip, 1k ohm, 1/16W
RQ10	24872102	Chip, 1k ohm, 1/16W
RQ11	24872561	Chip, 560 ohm, 1/16W
RQ12	24872561	Chip, 560 ohm, 1/16W
RQ13	24872203	Chip, 20k ohm, 1/16W
RQ14	24872273	Chip, 27k ohm, 1/16W
RQ20	24872563	Chip, 56k ohm, 1/16W
RR01	24872181	Chip, 180 ohm, 1/16W
RR02	24872181	Chip, 180 ohm, 1/16W
RR03	24872181	Chip, 180 ohm, 1/16W
RR10	24872103	Chip, 10k ohm, 1/16W
RR11	24872473	Chip, 47k ohm, 1/16W
RR12	24872102	Chip, 1k ohm, 1/16W
RR13	24872622	Chip, 6200 ohm, 1/16W
RR20	24872103	Chip, 10k ohm, 1/16W
RR28	24872473	Chip, 47k ohm, 1/16W
RR29	24872473	Chip, 47k ohm, 1/16W
RR40	24872102	Chip, 1k ohm, 1/16W
RS01	24872681	Chip, 680 ohm, 1/16W
RS02	24872681	Chip, 680 ohm, 1/16W
RS03	24872101	Chip, 100 ohm, 1/16W
RS04	24872101	Chip, 100 ohm, 1/16W
RS05	24872472	Chip, 4700 ohm, 1/16W
RS06	24872472	Chip, 4700 ohm, 1/16W
RS07	24872472	Chip, 4700 ohm, 1/16W
RS08	24872472	Chip, 4700 ohm, 1/16W
RS09	24872472	Chip, 4700 ohm, 1/16W
RS10	24872472	Chip, 4700 ohm, 1/16W

Location No.	Part No.	Description
RS11	24872101	Chip, 100 ohm, 1/16W
RS13	24872101	Chip, 100 ohm, 1/16W
RS14	24872101	Chip, 100 ohm, 1/16W
RS15	24872104	Chip, 100k ohm, 1/16W
RS16	24872104	Chip, 100k ohm, 1/16W
RS17	24872223	Chip, 22k ohm, 1/16W
RS18	24872223	Chip, 22k ohm, 1/16W
RS19	24872102	Chip, 1k ohm, 1/16W
RS20	24872102	Chip, 1k ohm, 1/16W
RS21	24872222	Chip, 2200 ohm, 1/16W
RS22	24872222	Chip, 2200 ohm, 1/16W
RS23	24872101	Chip, 100 ohm, 1/16W
RS24	24872101	Chip, 100 ohm, 1/16W
RS27	24872104	Chip, 100k ohm, 1/16W
RS28	24872104	Chip, 100k ohm, 1/16W
RS29	24872223	Chip, 22k ohm, 1/16W
RS30	24872223	Chip, 22k ohm, 1/16W
RS31	24872103	Chip, 10k ohm, 1/16W
RS32	24872104	Chip, 100k ohm, 1/16W
RS35	24872223	Chip, 22k ohm, 1/16W
RS36	24872223	Chip, 22k ohm, 1/16W
RS37	24872104	Chip, 100k ohm, 1/16W
RS38	24872104	Chip, 100k ohm, 1/16W
RS43	24872681	Chip, 680 ohm, 1/16W
RS44	24872681	Chip, 680 ohm, 1/16W
RS45	24872681	Chip, 680 ohm, 1/16W
RS46	24872681	Chip, 680 ohm, 1/16W
RV01	24872101	Chip, 100 ohm, 1/16W
RV02	24872101	Chip, 100 ohm, 1/16W
RV03	24872101	Chip, 100 ohm, 1/16W
RV04	24872101	Chip, 100 ohm, 1/16W
RV05	24872101	Chip, 100 ohm, 1/16W
RV06	24872101	Chip, 100 ohm, 1/16W
RV07	24872162	Chip, 1600 ohm, 1/16W
RV08	24872162	Chip, 1600 ohm, 1/16W
RV09	24872101	Chip, 100 ohm, 1/16W
RV10	24872101	Chip, 100 ohm, 1/16W
RV12	24872681	Chip, 680 ohm, 1/16W
RV13	24872681	Chip, 680 ohm, 1/16W
RV14	24872101	Chip, 100 ohm, 1/16W
RV16	24872271	Chip, 270 ohm, 1/16W
RV18	24872123	Chip, 12k ohm, 1/16W
RV19	24872101	Chip, 100 ohm, 1/16W
RV20	24872101	Chip, 100 ohm, 1/16W
RV21	24366100	CF, 10 ohm
RV21	24872102	Chip, 1k ohm, 1/16W
RV22	24366222	CF, 2200 ohm
RV22	24872391	Chip, 390 ohm, 1/16W
RV23	24552101	OMF, 100 ohm, 1/2W
RV25	24872101	Chip, 100 ohm, 1/16W
RV26	24366181	CF, 180 ohm
RV27	24872750	Chip, 75 ohm, 1/16W
RV28	24872683	Chip, 68k ohm, 1/16W
RV29	24872273	Chip, 27k ohm, 1/16W
RV30	24872750	Chip, 75 ohm, 1/16W
RV31	24872750	Chip, 75 ohm, 1/16W
RV32	24872750	Chip, 75 ohm, 1/16W
RV33	24872123	Chip, 12k ohm, 1/16W
RV34	24872123	Chip, 12k ohm, 1/16W
RV35	24872103	Chip, 10k ohm, 1/16W
RV36	24872101	Chip, 100 ohm, 1/16W
RV37	24872750	Chip, 75 ohm, 1/16W
RV60	24872102	Chip, 1k ohm, 1/16W
RV61	24552101	OMF, 100 ohm, 1/2W

Location No.	Part No.	Description
RV62	24872101	Chip, 100 ohm, 1/16W
RV63	24552151	OMF, 150 ohm, 1/2W
RV64	24872750	Chip, 75 ohm, 1/16W
RV65	24552101	OMF, 100 ohm, 1/2W
RV66	24872101	Chip, 100 ohm, 1/16W
RV67	24552151	OMF, 150 ohm, 1/2W
RV68	24872750	Chip, 75 ohm, 1/16W
RV70	24872101	Chip, 100 ohm, 1/16W
RV71	24872472	Chip, 4700 ohm, 1/16W
RV73	24872103	Chip, 10k ohm, 1/16W
RV74	24872104	Chip, 100k ohm, 1/16W
RV78	24872100	Chip, 10 ohm, 1/16W
RV79	24872102	Chip, 1k ohm, 1/16W
RV80	24872271	Chip, 270 ohm, 1/16W
RV80	24366681	CF, 680 ohm
RV81	24872750	Chip, 75 ohm, 1/16W
RV82	24872101	Chip, 100 ohm, 1/16W
RV83	24366681	CF, 680 ohm
RV85	24872750	Chip, 75 ohm, 1/16W
RV86	24872750	Chip, 75 ohm, 1/16W
RV87	24872750	Chip, 75 ohm, 1/16W
RV89	24872750	Chip, 75 ohm, 1/16W
RV90	24872681	Chip, 680 ohm, 1/16W
RV91	24872681	Chip, 680 ohm, 1/16W
RV92	24872100	Chip, 10 ohm, 1/16W
RV93	24872104	Chip, 100k ohm, 1/16W
RV94	24872103	Chip, 10k ohm, 1/16W
RV95	24872472	Chip, 4700 ohm, 1/16W
RV97	24872101	Chip, 100 ohm, 1/16W
RX201	24872470	Chip, 47 ohm, 1/16W
RX202	24872122	Chip, 1200 ohm, 1/16W
RX203	24872151	Chip, 150 ohm, 1/16W
RX204	24872392	Chip, 3900 ohm, 1/16W
RX205	24872103	Chip, 10k ohm, 1/16W
RX206	24871331	Chip, 330 ohm, 1/8W
RX207	24872220	Chip, 22 ohm, 1/16W
RX208	24872511	Chip, 510 ohm, 1/16W
RX210	24872122	Chip, 1200 ohm, 1/16W
RX211	24872221	Chip, 220 ohm, 1/16W
RX212	24871561	Chip, 560 ohm, 1/8W
RX213	24872220	Chip, 22 ohm, 1/16W
RX214	24872511	Chip, 510 ohm, 1/16W
RX216	24872122	Chip, 1200 ohm, 1/16W
RX217	24872221	Chip, 220 ohm, 1/16W
RX218	24871561	Chip, 560 ohm, 1/8W
RX219	24872220	Chip, 22 ohm, 1/16W
RX220	24872101	Chip, 100 ohm, 1/16W
RX221	24872153	Chip, 15k ohm, 1/16W
RX222	24872390	Chip, 39 ohm, 1/16W
RX223	24872103	Chip, 10k ohm, 1/16W
RX224	24872103	Chip, 10k ohm, 1/16W
RX225	24872122	Chip, 1200 ohm, 1/16W
RX226	24872181	Chip, 180 ohm, 1/16W
RX227	24872102	Chip, 1k ohm, 1/16W
RX228	24871471	Chip, 470 ohm, 1/8W
RX229	24872680	Chip, 68 ohm, 1/16W
RX230	24872430	Chip, 43 ohm, 1/16W
RX232	24872103	Chip, 10k ohm, 1/16W
RX233	24872103	Chip, 10k ohm, 1/16W
RX234	24871471	Chip, 470 ohm, 1/8W
RX235	24872271	Chip, 270 ohm, 1/16W
RX236	24872222	Chip, 2200 ohm, 1/16W
RX237	24871471	Chip, 470 ohm, 1/8W
RX238	24872680	Chip, 68 ohm, 1/16W

Location No.	Part No.	Description
RX239	24872470	Chip, 47 ohm, 1/16W
RX241	24872103	Chip, 10k ohm, 1/16W
RX242	24872103	Chip, 10k ohm, 1/16W
RX243	24871471	Chip, 470 ohm, 1/8W
RX244	24872271	Chip, 270 ohm, 1/16W
RX245	24872222	Chip, 2200 ohm, 1/16W
RX246	24871471	Chip, 470 ohm, 1/8W
RX247	24872680	Chip, 68 ohm, 1/16W
RX248	24872271	Chip, 270 ohm, 1/16W
RX249	24872821	Chip, 820 ohm, 1/16W
RX250	24872271	Chip, 270 ohm, 1/16W
RX251	24872821	Chip, 820 ohm, 1/16W
RX253	24872103	Chip, 10k ohm, 1/16W
RX254	24872103	Chip, 10k ohm, 1/16W
RX255	24872103	Chip, 10k ohm, 1/16W
RX256	24872103	Chip, 10k ohm, 1/16W
RX257	24872334	Chip, 33k ohm, 1/16W
RX258	24872103	Chip, 10k ohm, 1/16W
RX259	24872472	Chip, 4700 ohm, 1/16W
RX260	24872100	Chip, 10 ohm, 1/16W
RX261	24872103	Chip, 10k ohm, 1/16W
RX262	24872103	Chip, 10k ohm, 1/16W
RX263	24872103	Chip, 10k ohm, 1/16W
RX264	24872103	Chip, 10k ohm, 1/16W
RX266	24872472	Chip, 4700 ohm, 1/16W
RX267	24872472	Chip, 4700 ohm, 1/16W
RX268	24872472	Chip, 4700 ohm, 1/16W
RX269	24872472	Chip, 4700 ohm, 1/16W
RX270	24872472	Chip, 4700 ohm, 1/16W
RX271	24872472	Chip, 4700 ohm, 1/16W
RX272	24872472	Chip, 4700 ohm, 1/16W
RX273	24872472	Chip, 4700 ohm, 1/16W
RX274	24872472	Chip, 4700 ohm, 1/16W
RX277	24872103	Chip, 10k ohm, 1/16W
RX278	24872103	Chip, 10k ohm, 1/16W
RX279	24872103	Chip, 10k ohm, 1/16W
RX280	24872103	Chip, 10k ohm, 1/16W
RX283	24872103	Chip, 10k ohm, 1/16W
RX284	24872472	Chip, 4700 ohm, 1/16W
RX286	24872274	Chip, 270k ohm, 1/16W
RX287	24872271	Chip, 270 ohm, 1/16W
RX288	24872332	Chip, 3300 ohm, 1/16W
RX289	24872331	Chip, 330 ohm, 1/16W
RX290	24872331	Chip, 330 ohm, 1/16W
RX291	24872332	Chip, 3300 ohm, 1/16W
RX292	24872104	Chip, 100k ohm, 1/16W
RX293	24872102	Chip, 1k ohm, 1/16W
RX294	24872332	Chip, 3300 ohm, 1/16W
RX295	24872333	Chip, 33k ohm, 1/16W
RX296	24872470	Chip, 47 ohm, 1/16W
RX305	24872470	Chip, 47 ohm, 1/16W
RX309	24872181	Chip, 180 ohm, 1/16W
RX400	24872102	Chip, 1k ohm, 1/16W
RX401	24872471	Chip, 470 ohm, 1/16W
RX402	24872471	Chip, 470 ohm, 1/16W
RX403	24872101	Chip, 100 ohm, 1/16W
RX404	24872102	Chip, 1k ohm, 1/16W
RX405	24872221	Chip, 220 ohm, 1/16W
RX406	24872221	Chip, 220 ohm, 1/16W
RX408	24872221	Chip, 220 ohm, 1/16W
RX409	24872221	Chip, 220 ohm, 1/16W
RX411	24872100	Chip, 10 ohm, 1/16W
RX413	24872100	Chip, 10 ohm, 1/16W
RX415	24872100	Chip, 10 ohm, 1/16W

Location No.	Part No.	Description
RX511	24872681	Chip, 680 ohm, 1/16W
RX512	24872103	Chip, 10k ohm, 1/16W
RX513	24872182	Chip, 1800 ohm, 1/16W
RX514	24872332	Chip, 3300 ohm, 1/16W
RX531	24872331	Chip, 330 ohm, 1/16W
RX533	24872331	Chip, 330 ohm, 1/16W
RX534	24872332	Chip, 3300 ohm, 1/16W
RX536	24872104	Chip, 100k ohm, 1/16W
RX601	24872330	Chip, 33 ohm, 1/16W
RX602	24872330	Chip, 33 ohm, 1/16W
RX603	24872330	Chip, 33 ohm, 1/16W
RX604	24872330	Chip, 33 ohm, 1/16W
RX611	24872470	Chip, 47 ohm, 1/16W
RX612	24872470	Chip, 47 ohm, 1/16W
RX613	24872470	Chip, 47 ohm, 1/16W
RX614	24872470	Chip, 47 ohm, 1/16W
RX615	24872470	Chip, 47 ohm, 1/16W
RX616	24872470	Chip, 47 ohm, 1/16W
RX617	24872470	Chip, 47 ohm, 1/16W
RX618	24872470	Chip, 47 ohm, 1/16W
RX619	24872470	Chip, 47 ohm, 1/16W
RX620	24872470	Chip, 47 ohm, 1/16W
RX621	24872470	Chip, 47 ohm, 1/16W
RX622	24872470	Chip, 47 ohm, 1/16W
RX623	24872470	Chip, 47 ohm, 1/16W
RX631	24872470	Chip, 47 ohm, 1/16W
RX632	24872470	Chip, 47 ohm, 1/16W
RX633	24872470	Chip, 47 ohm, 1/16W
RX634	24872470	Chip, 47 ohm, 1/16W
RX635	24872470	Chip, 47 ohm, 1/16W
RX636	24872470	Chip, 47 ohm, 1/16W
RX637	24872470	Chip, 47 ohm, 1/16W
RX638	24872470	Chip, 47 ohm, 1/16W
RX639	24872470	Chip, 47 ohm, 1/16W
RX640	24872470	Chip, 47 ohm, 1/16W
RX641	24872470	Chip, 47 ohm, 1/16W
RX642	24872470	Chip, 47 ohm, 1/16W
RX651	24872182	Chip, 1800 ohm, 1/16W
RX654	24872183	Chip, 18k ohm, 1/16W
RX655	24872100	Chip, 10 ohm, 1/16W
RX660	24872221	Chip, 220 ohm, 1/16W
RX661	24872100	Chip, 10 ohm, 1/16W
RX662	24872100	Chip, 10 ohm, 1/16W
RX663	24872101	Chip, 100 ohm, 1/16W
RZ01	24872471	Chip, 470 ohm, 1/16W
RZ02	24872152	Chip, 1500 ohm, 1/16W
RZ04	24872332	Chip, 3300 ohm, 1/16W
RZ05	24872332	Chip, 3300 ohm, 1/16W
RZ06	24872821	Chip, 820 ohm, 1/16W
RZ07	24872272	Chip, 2700 ohm, 1/16W
RZ08	24872332	Chip, 3300 ohm, 1/16W
RZ12	24872471	Chip, 470 ohm, 1/16W
RZ18	24872821	Chip, 820 ohm, 1/16W
RZ19	24872471	Chip, 470 ohm, 1/16W
RZ20	24872122	Chip, 1200 ohm, 1/16W
RZ23	24872821	Chip, 820 ohm, 1/16W
RZ24	24872821	Chip, 820 ohm, 1/16W
RZ25	24872101	Chip, 100 ohm, 1/16W
RZ26	24872101	Chip, 100 ohm, 1/16W
RZ28	24872821	Chip, 820 ohm, 1/16W
RZ29	24872331	Chip, 330 ohm, 1/16W
RZ30	24872331	Chip, 330 ohm, 1/16W

Location No.	Part No.	Description
COILS & TRANSFORMERS		
L101	23221803	Coil, Choke, TLN3040D
L200	23289479	Coil, Peaking, TRF44R7AF
L201	23103845	Filter, TEM2030AY
L202	23103845	Filter, TEM2030AY
L301	23103859	Coil (Ferrite Bead), TEM2011
L302	23237975	Coil, Peaking, TRF4101AC
L333	23238702	Coil, Peaking, TRF4101AJ
L400	23289101	Coil, Peaking, TRF4101AF
L410	23103859	Coil (Ferrite Bead), TEM2011
L441	23233966	Coil, Linearity, TLN2158AY
L442	23248168	Coil, Choke, TLN3328AD
L449	23103859	Coil (Ferrite Bead), TEM2011
L461	23248179	Coil, Choke, TLN3339AD
L470	23103859	Coil (Ferrite Bead), TEM2011
L501	23289100	Coil, Peaking, TRF4100AF
L502	23103824	Filter, TEM2028K
L503	23289470	Coil, Peaking, TRF4470AF
L510	23238718	Coil, Peaking, TRF4479AJ
L601	23238714	Coil, Peaking, TRF4100AJ
L602	23238714	Coil, Peaking, TRF4100AJ
L603	23238562	Coil, Peaking, TRF4109AJ
L604	23238562	Coil, Peaking, TRF4109AJ
L643	23103859	Coil (Ferrite Bead), TEM2011
L644	23103859	Coil (Ferrite Bead), TEM2011
L671	23103859	Coil (Ferrite Bead), TEM2011
L672	23103859	Coil (Ferrite Bead), TEM2011
L676	23103832	Chip Bead, TEM2125M
L677	23103832	Chip Bead, TEM2125M
L682	23103832	Chip Bead, TEM2125M
L683	23103832	Chip Bead, TEM2125M
L684	23289109	Coil, Peaking, TRF41R0AF
L685	23289109	Coil, Peaking, TRF41R0AF
L701	23289100	Coil, Peaking, TRF4100AF
L702	23261974	Coil, Choke, HC5-035
L704	23103859	Coil (Ferrite Bead), TEM2011
L705	23103859	Coil (Ferrite Bead), TEM2011
L801	23217358	Coil, Choke, TPW2008AZ
L811	23103859	Coil (Ferrite Bead), TEM2011
L814	23221747	Coil, Choke, TRF9253D
L815	23103937	Coil (Ferrite Bead), TEM2004
L820	23103859	Coil (Ferrite Bead), TEM2011
L821	23103859	Coil (Ferrite Bead), TEM2011
L823	23103859	Coil (Ferrite Bead), TEM2011
L824	23103859	Coil (Ferrite Bead), TEM2011
L825	23103859	Coil (Ferrite Bead), TEM2011
L826	23103859	Coil (Ferrite Bead), TEM2011
L827	23280016	Coil, Peaking, TRF4100AZ
L828	23222694	Coil, Width, TLN2026
L829	23280016	Coil, Peaking, TRF4100AZ
L830	23280016	Coil, Peaking, TRF4100AZ
L870	23103859	Coil (Ferrite Bead), TEM2011
L871	23103859	Coil (Ferrite Bead), TEM2011
L872	23103859	Coil (Ferrite Bead), TEM2011
L883	23221747	Coil, Choke, TRF9253D
L885	23248073	Coil, Choke, TLN3299D
L891	23103859	Coil (Ferrite Bead), TEM2011
L892	23103859	Coil (Ferrite Bead), TEM2011
L893	23280016	Coil, Peaking, TRF4100AZ
L894	23280016	Coil, Peaking, TRF4100AZ
L896	23103859	Coil (Ferrite Bead), TEM2011
L897	23280016	Coil, Peaking, TRF4100AZ
⚠L901	23200324	Coil, Degaussing, TSB-2378AR
L902	23289101	Coil, Peaking, TRF4101AF

Location No.	Part No.	Description
L903	23289101	Coil, Peaking, TRF4101AF
L904	23289101	Coil, Peaking, TRF4101AF
L905	23289220	Coil, Peaking, TRF4220AF
L906	23289220	Coil, Peaking, TRF4220AF
L907	23289220	Coil, Peaking, TRF4220AF
L908	23289100	Coil, Peaking, TRF4100AF
L910	23289109	Coil, Peaking, TRF41R0AF
L911	23289101	Coil, Peaking, TRF4101AF
L912	23289150	Coil, Peaking, TRF4150AF
L913	23289150	Coil, Peaking, TRF4150AF
L914	23289150	Coil, Peaking, TRF4150AF
LA01	23289100	Coil, Peaking, TRF4100AF
LD81	23289479	Coil, Peaking, TRF44R7AF
LD83	23103859	Coil (Ferrite Bead), TEM2011
LD89	23289470	Coil, Peaking, TRF4470AF
LF01	23238506	Coil, Peaking, TRF4229AJ
LF02	23238506	Coil, Peaking, TRF4229AJ
LF03	23238506	Coil, Peaking, TRF4229AJ
LF04	23238506	Coil, Peaking, TRF4229AJ
LF06	23238562	Coil, Peaking, TRF4109AJ
LF07	23238562	Coil, Peaking, TRF4109AJ
LF08	23238714	Coil, Peaking, TRF4100AJ
LF09	23238714	Coil, Peaking, TRF4100AJ
LF10	23238562	Coil, Peaking, TRF4109AJ
LF11	23289109	Coil, Peaking, TRF41R0AF
LF13	23289100	Coil, Peaking, TRF4100AF
LF17	23289100	Coil, Peaking, TRF4100AF
LQ01	23238709	Coil, Peaking, TRF4270AJ
LQ02	23237991	Coil, Peaking, TRF4479AC
LQ03	23289470	Coil, Peaking, TRF4470AF
LQ04	23238718	Coil, Peaking, TRF4479AJ
LR01	23289100	Coil, Peaking, TRF4100AF
LV06	23103832	Chip Bead, TEM2125M
LV07	23103832	Chip Bead, TEM2125M
LV08	23289330	Coil, Peaking, TRF4330AF
LV09	23289100	Coil, Peaking, TRF4100AF
LV10	23289220	Coil, Peaking, TRF4220AF
LV11	23289330	Coil, Peaking, TRF4330AF
LV20	23103845	Filter, TEM2030AY
LV42	23289100	Coil, Peaking, TRF4100AF
LV43	23289100	Coil, Peaking, TRF4100AF
LV49	23103824	Filter, TEM2028K
L4400	23221886	Coil, Choke, TLN3073
L4430	23289680	Coil, Peaking, TRF4680AF
LX201	23103822	Chip (Ferrite Bead), TEM2117T
LX202	23103822	Chip (Ferrite Bead), TEM2117T
LX204	23245829	Chip Inductor, TRF48R2CB
LX205	23245835	Chip Inductor, TRF4270CB
LX206	23245835	Chip Inductor, TRF4270CB
LX208	23103822	Chip (Ferrite Bead), TEM2117T
LX209	23103822	Chip (Ferrite Bead), TEM2117T
LX211	23103822	Chip (Ferrite Bead), TEM2117T
LX213	23103822	Chip (Ferrite Bead), TEM2117T
LX215	23103822	Chip (Ferrite Bead), TEM2117T
LX217	23238713	Coil, Peaking, TRF4120AJ
LX218	23245831	Chip Inductor, TRF4120CB
LX219	23245831	Chip Inductor, TRF4120CB
LX220	23103822	Chip (Ferrite Bead), TEM2117T
LX221	23103822	Chip (Ferrite Bead), TEM2117T
LX222	23103822	Chip (Ferrite Bead), TEM2117T
LX223	23103822	Chip (Ferrite Bead), TEM2117T
LX224	23103822	Chip (Ferrite Bead), TEM2117T
LX230	23103822	Chip (Ferrite Bead), TEM2117T
LX231	23245822	Chip, Inductor, 2.2uH

Location No.	Part No.	Description
LX232	23103822	Chip (Ferrite Bead), TEM2117T
LX400	23238562	Coil, Peaking, TRF4109AJ
LX401	23245818	Coil, Peaking, TRF4109AJ
LX402	23245818	Coil, Peaking, TRF4109AJ
LX403	23238562	Coil, Peaking, TRF4109AJ
LX404	23238562	Coil, Peaking, TRF4109AJ
LX405	23238562	Coil, Peaking, TRF4109AJ
LX406	23238562	Coil, Peaking, TRF4109AJ
LX407	23238562	Coil, Peaking, TRF4109AJ
LX408	23245818	Coil, Peaking, TRF4109AJ
LX409	23245818	Coil, Peaking, TRF4109AJ
LX501	23103822	Chip (Ferrite Bead), TEM2117T
LX511	23103822	Chip (Ferrite Bead), TEM2117T
LX601	23103822	Chip (Ferrite Bead), TEM2117T
LX611	23103822	Chip (Ferrite Bead), TEM2117T
LX621	23103822	Chip (Ferrite Bead), TEM2117T
LX623	23103822	Chip (Ferrite Bead), TEM2117T
LX641	23103822	Chip (Ferrite Bead), TEM2117T
LX643	23103822	Chip (Ferrite Bead), TEM2117T
LZ01	23289150	Coil, Peaking, TRF4150AF
LZ03	23238716	Coil, Peaking, TRF4689AJ
LZ04	23238709	Coil, Peaking, TRF4270AJ
LZ05	23238716	Coil, Peaking, TRF4689AJ
LZ06	23238709	Coil, Peaking, TRF4270AJ
LZ07	23238709	Coil, Peaking, TRF4270AJ
LZ08	23238707	Coil, Peaking, TRF4390AJ
LZ09	70131060	Filter, ZBF253D-00
LZ10	70131060	Filter, ZBF253D-00
T400	23224364	Transformer, Focus, TLN2168AH
T401	23224371	Transformer, Horiz Drive, TLN1080AH
T461A	23192946	TCCP5163
T461B	23504203	Cable, Focus
T801	23211670	Line Filter, TRF3164G
T802	23211670	Line Filter, TRF3164G
T803	23211703	Line Filter, TRF3196AQ
T805	23211699	Line Filter, TRF3219AM
⚠T863	23217359	Transformer, Converter, TPW3374AG
⚠T864	23217399	Transformer, Converter, TPW3401AE

SEMICONDUCTORS

Q200	A6330059	Transistor, 2SC2482(C)
Q201	A6541130	Transistor, 2SA1162-Y
Q204	A6335470	Transistor, 2SC2712-Y
Q205	A6335470	Transistor, 2SC2712-Y
Q270	A6004040	Transistor, RN1404
Q271	A6004040	Transistor, RN1404
Q272	A6014040	Transistor, RN2404
Q273	A6335470	Transistor, 2SC2712-Y
Q301	B0378560	IC, TA8427K
Q301B	70391355	Screw, BITTB3X8 SZN
Q302	B0384625	IC, TA8859CP
Q360	A6002040	Transistor, RN1204
Q361	A6002040	Transistor, RN1204
Q362	A6002050	Transistor, RN1205
Q370	A6534053	Transistor, 2SA1015-Y(TE
Q402	A6325419	Transistor, 2SC2235-O(FA
Q404	A6371775	Transistor, 2SC5144
Q404B	A8012650	Spacer, AC263
Q404D	72471082	Screw, BRDT2W3X10 SZN
Q418	23314141	Transistor, 2SC3852

Location No.	Part No.	Description
Q418B	70391355	Screw, BITTB3X8 SZN
Q420	23314141	Transistor, 2SC3852
Q420B	70391355	Screw, BITTB3X8 SZN
Q421	A6317440	Transistor, 2SC1815-Y
Q430	23314141	Transistor, 2SC3852
Q460	23314850	Transistor, 2SA1788-E
Q460B	72471082	Screw, BRDT2W3X10 SZN
Q461	A6317440	Transistor, 2SC1815-Y
Q462	A6317440	Transistor, 2SC1815-Y
Q470	A6317440	Transistor, 2SC1815-Y
Q501	B0385990	IC, TA1259N
Q502	A6335470	Transistor, 2SC2712-Y
Q503	A6335470	Transistor, 2SC2712-Y
Q510	A6335470	Transistor, 2SC2712-Y
Q518	A6335470	Transistor, 2SC2712-Y
Q601	23318413	IC, LA4282
Q601B	70391356	Screw, BITTB3X10 SZN
Q602	23318413	IC, LA4282
Q602B	70391356	Screw, BITTB3X10 SZN
Q603	A6317440	Transistor, 2SC1815-Y
Q604	23906381	IC, LM1875T
Q604B	70391356	Screw, BITTB3X10 SZN
Q605	23906381	IC, LM1875T
Q605B	70391356	Screw, BITTB3X10 SZN
Q606	A6342206	Transistor, 2SC2878-A(TE
Q607	A6342206	Transistor, 2SC2878-A(TE
Q608	A6534053	Transistor, 2SA1015-Y(TE
Q609	A6534053	Transistor, 2SA1015-Y(TE
Q610	A6317440	Transistor, 2SC1815-Y
Q612	A6534053	Transistor, 2SA1015-Y(TE
Q681	A6342206	Transistor, 2SC2878-A(TE
Q682	A6342206	Transistor, 2SC2878-A(TE
Q683	A6342206	Transistor, 2SC2878-A(TE
Q684	A6342206	Transistor, 2SC2878-A(TE
Q705	A6317440	Transistor, 2SC1815-Y
Q706	A6317440	Transistor, 2SC1815-Y
Q707	A6734590	Transistor, 2SC752(G)TM-Y
Q709	A6317440	Transistor, 2SC1815-Y
Q710	A6534053	Transistor, 2SA1015-Y(TE
Q711	23314911	Transistor, 2SB1569A
Q711B	70391355	Screw, BITTB3X8 SZN
Q712	23314914	Transistor, 2SD2400A
Q712B	70391355	Screw, BITTB3X8 SZN
Q719	A6319311	Transistor, 2SC1959-Y(TE
Q801	23905084	IC, STR-S6709
Q801B	72471082	Screw, BRDT2W3X10 SZN
Q802	23314141	Transistor, 2SC3852
Q803	23906414	IC, STR-F6654
Q803B	70391356	Screw, BITTB3X10 SZN
Q804	A6317440	Transistor, 2SC1815-Y
Q805	A6317440	Transistor, 2SC1815-Y
⚠ Q806	A8643108	Photo Coupler, TLP621(GR-LF
Q807	A6317440	Transistor, 2SC1815-Y
⚠ Q826	A8643108	Photo Coupler, TLP621(GR-LF
Q830	23905977	IC, PQ09RD11
Q830B	72471082	Screw, BRDT2W3X10 SZN
Q831	23314141	Transistor, 2SC3852
Q831B	70391355	Screw, BITTB3X8 SZN
Q832	23314141	Transistor, 2SC3852
Q832B	70391355	Screw, BITTB3X8 SZN
Q833	23314141	Transistor, 2SC3852
Q833B	70391355	Screw, BITTB3X8 SZN
Q840	23318299	IC, L78MR05
Q840B	70391355	Screw, BITTB3X8 SZN

Location No.	Part No.	Description
Q885	A6534053	Transistor, 2SA1015-Y(TE
Q901	A6368700	Transistor, 2SC4544
Q901B	70391355	Screw, BITTB3X8 SZN
Q902	A6317440	Transistor, 2SC1815-Y
Q903	A6368700	Transistor, 2SC4544
Q903B	70391355	Screw, BITTB3X8 SZN
Q904	A6317440	Transistor, 2SC1815-Y
Q905	A6368700	Transistor, 2SC4544
Q905B	70391355	Screw, BITTB3X8 SZN
Q906	A6317440	Transistor, 2SC1815-Y
Q907	A6509154	Transistor, 2SA562TM-Y(T)
Q908	A6321265	Transistor, 2SC2120-Y(TE)
Q910	A6317440	Transistor, 2SC1815-Y
Q911	A6317440	Transistor, 2SC1815-Y
Q912	A6534053	Transistor, 2SA1015-Y(TE
Q913	A6534053	Transistor, 2SA1015-Y(TE
Q914	A6317440	Transistor, 2SC1815-Y
Q4321	A6002040	Transistor, RN1204
Q4420	23316816	IC, LA7860
Q4421	A6002040	Transistor, RN1204
Q4423	A6325419	Transistor, 2SC2235-O(FA
QA01	23906508	IC, 87CS38N-3556
QA02	23905320	IC, NM24C16EN
QA03	A6534053	Transistor, 2SA1015-Y(TE
QA05	A6734590	Transistor, 2SC752(G)TM-Y
QB01	A6317440	Transistor, 2SC1815-Y
QB03	A6002050	Transistor, RN1205
QB30	A6317440	Transistor, 2SC1815-Y
QB81	A6342206	Transistor, 2SC2878-A(TE
QB82	A6342206	Transistor, 2SC2878-A(TE
QB83	A6534053	Transistor, 2SA1015-Y(TE
QB92	A6317440	Transistor, 2SC1815-Y
QB93	A6534053	Transistor, 2SA1015-Y(TE
QB94	A6534053	Transistor, 2SA1015-Y(TE
QB95	A6534053	Transistor, 2SA1015-Y(TE
QB96	A6534053	Transistor, 2SA1015-Y(TE
QD01	23906068	IC, ZR38600PQC
QD02	23906069	IC, AK4309AVM-E2
QD04	A6030620	IC, TC7S04F
QD05	A6030620	IC, TC7S04F
QD06	23906069	IC, AK4309AVM-E2
QD07	23906069	IC, AK4309AVM-E2
QD08	23906585	IC, NJM2058M-TE2
QD10	70119743	IC, PST523D
QD30	B0385647	IC, TA1217AN
QD80	23314141	Transistor, 2SC3852
QD81	B0372560	IC, TA78L005AP
QD89	A6335470	Transistor, 2SC2712-Y
QD103	23314314	Transistor, XN4501
QD201	23905560	IC, M62420SP
QF01	23906346	IC, SDA5273-2S
QF03	23314204	Transistor, 2SC2412K,Q
QF04	A6734590	Transistor, 2SC752(G)TM-Y
QF10	23905862	IC, UPD424400LA
QQ01	B0385755	IC, TA1229N
QQ02	B0383881	IC, TA8772AN
QQ03	A6335470	Transistor, 2SC2712-Y
QQ04	A6335470	Transistor, 2SC2712-Y
QR01	B0386235	IC, TA1287P
QR21	A6335470	Transistor, 2SC2712-Y
QR23	A6335470	Transistor, 2SC2712-Y
QS01	A6359870	Transistor, 2SC3326-B
QS02	A6359870	Transistor, 2SC3326-B
QS03	A6335470	Transistor, 2SC2712-Y

Location No.	Part No.	Description
QS04	A6335470	Transistor, 2SC2712-Y
QS05	A6359870	Transistor, 2SC3326-B
QS06	A6359870	Transistor, 2SC3326-B
QS07	A6014040	Transistor, RN2404
QS08	A6359870	Transistor, 2SC3326-B
QS09	A6359870	Transistor, 2SC3326-B
QV01	B0385650	IC, TA1218N
QV02	A6317440	Transistor, 2SC1815-Y
QV02	A6335470	Transistor, 2SC2712-Y
QV06	A6541130	Transistor, 2SA1162-Y
QV07	A6359870	Transistor, 2SC3326-B
QV08	A6335470	Transistor, 2SC2712-Y
QV09	A6317440	Transistor, 2SC1815-Y
QV10	A6335470	Transistor, 2SC2712-Y
QV11	A6335470	Transistor, 2SC2712-Y
QV12	A6317440	Transistor, 2SC1815-Y
QV14	A6317440	Transistor, 2SC1815-Y
QV15	A6359870	Transistor, 2SC3326-B
QX22	A6030620	IC, TC7S04F
QX22	70119743	IC, PST523D
QX23	B0370000	IC, TA78L05F
QX41	A6030630	IC, TC7S08F
QX41	A6030640	IC, TC7S32F
QX65	A6030640	IC, TC7S32F
QX201	23314204	Transistor, 2SC2412K,Q
QX202	23314204	Transistor, 2SC2412K,Q
QX204	23314202	Transistor, 2SA1037K-Q
QX206	23314202	Transistor, 2SA1037K-Q
QX207	23905540	IC, TDA8755T
QX209	23905541	IC, SAA7165WP
QX210	23314202	Transistor, 2SA1037K-Q
QX211	23314204	Transistor, 2SC2412K,Q
QX212	23314202	Transistor, 2SA1037K-Q
QX213	23314204	Transistor, 2SC2412K,Q
QX214	23314202	Transistor, 2SA1037K-Q
QX215	23314204	Transistor, 2SC2412K,Q
QX219	23906542	IC, 83C654EBA579
QX220	A6030871	IC, TC7W04F(BRA)
QX221	23906467	IC, SAA4952WP
QX222	23905013	IC, TLC2932IPW
QX223	23905013	IC, TLC2932IPW
QX224	23905013	IC, TLC2932IPW
QX231	23314204	Transistor, 2SC2412K,Q
QX232	23314204	Transistor, 2SC2412K,Q
QX501	B0508717	IC, TC190G04AF-0
QX511	A6030871	IC, TC7W04F(BRA)
QX512	A6361770	Transistor, 2SC3437-Y
QX521	A6030928	IC, TC7W74F(BRA)
QX531	23905013	IC, TLC2932IPW
QX601	23906466	IC, SAA4991WP
QX611	23906484	IC, BA033T
QX621	23906468	IC, SAA4955TJ
QX641	23906468	IC, SAA4955TJ
QZ01	B0410688	IC, TC9090AN
QZ02	A6335470	Transistor, 2SC2712-Y
QZ03	A6335470	Transistor, 2SC2712-Y
QZ04	A6335470	Transistor, 2SC2712-Y
QZ06	A6335470	Transistor, 2SC2712-Y
D101	23316411	Diode, 1SS184
D201	23118041	Diode, MA111-(TX)
D240	23115599	Diode, 1N4148
D301	23118479	Diode, BYD33J
D302	23118479	Diode, BYD33J
D303	23316794	Diode, SC570A

Location No.	Part No.	Description
D306	23115599	Diode, 1N4148
D308	23118822	Diode, ERB12-02
D309	23118822	Diode, ERB12-02
D312	23115599	Diode, 1N4148
D370	23316652	Diode, Zener, MTZJ2.7A
D371	23115599	Diode, 1N4148
D404	23357043	Diode, FMQ-G5GS
D404B	72471082	Screw, BRDT2W3X10 SZN
D406	23118479	Diode, BYD33J
D418	23316749	Diode, Zener, MTZJ30A
D419	23316716	Diode, Zener, MTZJ11B
D420	23316716	Diode, Zener, MTZJ11B
D421	23316680	Diode, Zener, MTZJ7.5A
D422	23316726	Diode, Zener, MTZJ15C
D4301	23316726	Diode, Zener, MTZJ15C
D431	23316678	Diode, Zener, MTZJ6.8B
D432	23316678	Diode, Zener, MTZJ6.8B
D436	23115599	Diode, 1N4148
D441	23316687	Diode, Zener, MTZJ9.1B
D460	23118479	Diode, BYD33J
D461	23316582	Diode, ERC20-06
D461B	70391355	Screw, BITTB3X8 SZN
D463	23115599	Diode, 1N4148
D464	23316718	Diode, Zener, MTZJ12A
D466	23316672	Diode, Zener, MTZJ5.6B
D467	23118479	Diode, BYD33J
D468	23316718	Diode, Zener, MTZJ12A
D488	23115599	Diode, 1N4148
D490	23115599	Diode, 1N4148
D499	23118479	Diode, BYD33J
D501	23115599	Diode, 1N4148
D502	23115599	Diode, 1N4148
D601	23115599	Diode, 1N4148
D602	23115599	Diode, 1N4148
D603	23115599	Diode, 1N4148
D604	23115599	Diode, 1N4148
D610	23115599	Diode, 1N4148
D611	23115599	Diode, 1N4148
D612	23115599	Diode, 1N4148
D613	23115599	Diode, 1N4148
D614	23115599	Diode, 1N4148
D615	23115599	Diode, 1N4148
D616	23115599	Diode, 1N4148
D617	23115599	Diode, 1N4148
D618	23115599	Diode, 1N4148
D619	23115599	Diode, 1N4148
D624	23115599	Diode, 1N4148
D625	23115599	Diode, 1N4148
D626	23115599	Diode, 1N4148
D627	23115599	Diode, 1N4148
D628	23115599	Diode, 1N4148
D629	23115599	Diode, 1N4148
D630	23115599	Diode, 1N4148
D634	23115599	Diode, 1N4148
D635	23115599	Diode, 1N4148
D636	23115599	Diode, 1N4148
D704	23115599	Diode, 1N4148
D705	23115599	Diode, 1N4148
D715	23115599	Diode, 1N4148
D721	23115599	Diode, 1N4148
D801	23357041	Diode, LN6SB60-F05
D801B	70391355	Screw, BITTB3X8 SZN
D803	23118479	Diode, BYD33J
D804	23316678	Diode, Zener, MTZJ6.8B

Location No.	Part No.	Description
D805	23115599	Diode, 1N4148
D806	23118479	Diode, BYD33J
D808	23118479	Diode, BYD33J
D809	23316672	Diode, Zener, MTZJ5.6B
D810	23115599	Diode, 1N4148
D811	23115599	Diode, 1N4148
D812	23118451	Diode, RU-4A
D815	23316725	Diode, Zener, MTZJ15B
D828	23115599	Diode, 1N4148
D832	23316672	Diode, Zener, MTZJ5.6B
D833	23115599	Diode, 1N4148
D834	23115599	Diode, 1N4148
D835	23115599	Diode, 1N4148
D837	23115599	Diode, 1N4148
D839	23316672	Diode, Zener, MTZJ5.6B
D840	23316391	Diode, D3SB60, 4109
D841	23115599	Diode, 1N4148
D842	23118338	Diode, RU4AM
D843	23316476	Diode, FML-G14S
D843B	70391355	Screw, BITTB3X8 SZN
D844	23118052	Diode, RU4Z
D845	23118479	Diode, BYD33J
D846	23118479	Diode, BYD33J
D871	23118479	Diode, BYD33J
D883	23316406	Diode, FML-G16S
D883B	70391355	Screw, BITTB3X8 SZN
D886	23115599	Diode, 1N4148
D891	23316184	Diode, FML-G12S
D891B	70391355	Screw, BITTB3X8 SZN
D892	23316673	Diode, Zener, MTZJ5,6C
D892	23316184	Diode, FML-G12S
D892B	70391355	Screw, BITTB3X8 SZN
D893	23316672	Diode, Zener, MTZJ5.6B
D894	23316381	Diode, RU1P
D895	23316673	Diode, Zener, MTZJ5,6C
D896	23118479	Diode, BYD33J
D897	23316678	Diode, Zener, MTZJ6.8B
D901	23115599	Diode, 1N4148
D903	23115599	Diode, 1N4148
D904	23115599	Diode, 1N4148
D905	23115599	Diode, 1N4148
D906	23115599	Diode, 1N4148
D907	23115599	Diode, 1N4148
D908	23115599	Diode, 1N4148
D909	23115599	Diode, 1N4148
D910	23115599	Diode, 1N4148
D911	23118479	Diode, BYD33J
DA01	23115599	Diode, 1N4148
DA02	23115599	Diode, 1N4148
DA03	23115599	Diode, 1N4148
DA04	23316726	Diode, Zener, MTZJ15C
DA42	23115599	Diode, 1N4148
DB01	23358505	LED, SLR56VC196F
DB02	23358503	LED, SCL003MC3FX
DB30	23115599	Diode, 1N4148
DD81	23316661	Diode, Zener, MTZJ3.9B
DF01	23316654	Diode, Zener, MTZJ3.0A
DR02	23316557	Diode, HSM221C
DR03	23118351	Diode, RD4.7M-T1BB2
DV01	23118296	Diode, RD9.1M-T1BB2
DV02	23118296	Diode, RD9.1M-T1BB2
DV03	23118296	Diode, RD9.1M-T1BB2
DV04	23118296	Diode, RD9.1M-T1BB2
DV05	23118296	Diode, RD9.1M-T1BB2
DV06	23118296	Diode, RD9.1M-T1BB2
DV07	23118296	Diode, RD9.1M-T1BB2
DV10	23316557	Diode, HSM221C
DV11	23316557	Diode, HSM221C
DV12	23118296	Diode, RD9.1M-T1BB2
DV14	23118296	Diode, RD9.1M-T1BB2
DX601	23118041	Diode, MA111-(TX)
DZ01	23118293	Diode, Zener, RD10MB2

MISCELLANEOUS

B202	23470537	Frame, Terminal
B221	23037312	Screw, BTBW3X12 SZN
B223	23035412	Screw, BTB4X12 SZN
B224	23037312	Screw, BTBW3X12 SZN
B237	23845834	Clamp, Purse Lock
BB03	23903022	Socket, 8P, 2.5
BB04	23903022	Socket, 8P, 2.5
BB05A	23368627	Plug, 8P, 2.5
BB10	23903022	Socket, 8P, 2.5
BB10A	23368627	Plug, 8P, 2.5
BB11	23903022	Socket, 8P, 2.5
BB11A	23368627	Plug, 8P, 2.5
BB12	23903022	Socket, 8P, 2.5
BB12A	23368627	Plug, 8P, 2.5
BB13	23903022	Socket, 8P, 2.5
BB13A	23368627	Plug, 8P, 2.5
BB14	23903022	Socket, 8P, 2.5
BB14A	23368627	Plug, 8P, 2.5
BB15	23903022	Socket, 8P, 2.5
BB15A	23368627	Plug, 8P, 2.5
BB50B	23903022	Socket, 8P, 2.5
BB51B	23903022	Socket, 8P, 2.5
BB52B	23903022	Socket, 8P, 2.5
BB53B	23903022	Socket, 8P, 2.5
BB54A	23903022	Socket, 8P, 2.5
BB54B	23903022	Socket, 8P, 2.5
⚠F470	23144503	Fuse, 250V, 1.25A
F470A	23165433	Holder, Fuse
F470B	23165433	Holder, Fuse
⚠F801	23144508	Fuse, 4.0A
F801A	23165433	Holder, Fuse
⚠F802	23144506	Fuse, 250V, 2.5A
F802A	23165433	Holder, Fuse
⚠F803	23144506	Fuse, 250V, 2.5A
F803A	23165433	Holder, Fuse
G101	24366333	CF, 33k ohm
G299	24366103	CF, 10k ohm
G311	24366392	CF, 3900 ohm
G401	23103859	Coil (Ferrite Bead), TEM2011
G402	23103859	Coil (Ferrite Bead), TEM2011
G403	23103859	Coil (Ferrite Bead), TEM2011
G404	23103859	Coil (Ferrite Bead), TEM2011
G430	A7568460	Diode, TVR-1B
G465	23316652	Diode, Zener, MTZJ2.7A
G510	23289479	Coil, Peaking, TRF44R7AF
G604	23103859	Coil (Ferrite Bead), TEM2011
G606	23103859	Coil (Ferrite Bead), TEM2011
G879	24366472	CF, 4700 ohm
G980	24005010	MF, 10M ohm, 1/2W
GC12	23103859	Coil (Ferrite Bead), TEM2011
GC15	23238562	Coil, Peaking, TRF4109AJ
GC16	23238562	Coil, Peaking, TRF4109AJ
GJ02	24000824	Chip, Jumper, 2125 type
GJ05	24000824	Chip, Jumper, 2125 type

Location No.	Part No.	Description
GJ06	24000824	Chip, Jumper, 2125 type
GJ06	24000824	Chip, Jumper, 2125 type
GJ07	24000824	Chip, Jumper, 2125 type
GJ08	24000824	Chip, Jumper, 2125 type
GJ09	24000824	Chip, Jumper, 2125 type
GJ25	24000824	Chip, Jumper, 2125 type
GJ26	24000824	Chip, Jumper, 2125 type
GJ30	24000824	Chip, Jumper, 2125 type
GJ71	23238562	Coil, Peaking, TRF4109AJ
GS01	24000824	Chip, Jumper, 2125 type
GV05	23103832	Chip Bead, TEM2125M
GV07	24000824	Chip, Jumper, 2125 type
GV08	24000824	Chip, Jumper, 2125 type
GV11	24000824	Chip, Jumper, 2125 type
GV12	24000824	Chip, Jumper, 2125 type
GV13	24872681	Chip, 680 ohm, 1/16W
GV14	24000824	Chip, Jumper, 2125 type
GV15	24000824	Chip, Jumper, 2125 type
GV17	24000824	Chip, Jumper, 2125 type
GV38	24000824	Chip, Jumper, 2125 type
GV39	24000824	Chip, Jumper, 2125 type
GV40	24000824	Chip, Jumper, 2125 type
GV41	24872102	Chip, 1k ohm, 1/16W
GV97	24872101	Chip, 100 ohm, 1/16W
H002	23148326	Module, MVGS49B, IF, FR MPX
KB01	23904946	Remote Sensor, RPM-676CBR-S
P402A	23902780	Socket, 11P 2.5MM
P402B	23368530	Plug, 11P 2.5MM
P501A	23903025	Socket, 25P
P502A	23903025	Socket, 25P
P507	23902655	Socket, B-B, 15P
P512	23902863	Socket, 20P 2MM
P513	23902863	Socket, 20P 2MM
P661	23363607	Headphone Jack, 3.5mm
⚠P801	23372014	Power Cord
P831A	23164965	Plug, 4P
PD01A	23902742	Socket, 7P, 2.5MM
PD02A	23902746	Socket, 13P, 2.5MM
PD04	23364092	Pin Jack
PD05	A5812240	HIC OPTIC Receiver, TORX176
PD30	23368511	Plug, 7P 2.5MM
PD31	23367722	Plug, 13P, 2.5MM
PF01A	23367724	Connector, B-B, 15P
PH01	23902604	Socket, 21P
PH02	23902604	Socket, 21P
PH03	23902604	Socket, 21P
PU01	23368634	Plug, 25P 1.5MM
PU02	23368634	Plug, 25P 1.5MM
PV03	23365515	Jack, SVHS
PV04	23363252	Pin Jack, Yellow
PV05	23365508	Jack, Phono
PV10B	23368520	Plug, 20P 2MM
PV11B	23368520	Plug, 20P 2MM
PX01A	23902655	Socket, B-B, 15P
PX01B	23367724	Connector, B-B, 15P
PX02A	23902781	Socket, 12P, 2.5MM
PX02B	23368531	Plug, 12P, 2.5MM
S601	23145355	Switch, Slide, 4C-2P
⚠S801	23344416	Power Switch
SA01	23145430	Switch, Push, 1C1P
SA02	23145430	Switch, Push, 1C1P
SA03	23145430	Switch, Push, 1C1P
SA04	23145430	Switch, Push, 1C1P
SA06	23145430	Switch, Push, 1C1P
SR82	23146564	Relay, DC12V
⚠V901A	23902824	Socket, CRT, 10P
W661	23351138	Speaker, 80x120, 16 ohm, 8W
W662	23351138	Speaker, 80x120, 16 ohm, 8W
W663	23351138	Speaker, 80x120, 16 ohm, 8W
W664	23351138	Speaker, 80x120, 16 ohm, 8W
W665	23351139	Speaker, 120x120, 6 ohm, 30W
W666	23351141	Speaker, 80x120, 8 ohm, 10W
W667	23351141	Speaker, 80x120, 8 ohm, 10W
W668	23351142	Speaker, 50x50, 8 ohm, 15W
W669	23351142	Speaker, 50x50, 8 ohm, 15W
X401	23153721	Ceramic Resonator, 503kHz, TCR1023
X501	23153961	Crystal, 3.58MHz
X503	23153979	Crystal, 4.43MHz
XA01	23153325	Ceramic Resonator, 8.00M, TCR1056
XF01	23153421	Crystal, 20.48MHz
XQ01	23153969	Crystal, 4MHz
XV01	23107519	Ceramic Video Trap, 4.43MHz, TCF1066
XX201	23153930	Crystal, 12.0MHz
⚠Z420	23144539	Protector, PRF20005491, 125V, 2A
⚠Z430	23144536	Protector, PRF10005491, 125V, 1A
⚠Z801	23904998	IC, HIC1016
⚠Z890	23144543	Protector, PRF50005491, 125V, 5A
⚠Z890	23144539	Protector, PRF20005491, 125V, 2A
⚠Z891	23144543	Protector, PRF50005491, 125V, 5A
⚠Z892	23144543	Protector, PRF50005491, 125V, 5A
⚠Z893	23144543	Protector, PRF50005491, 125V, 5A
⚠Z894	23144543	Protector, PRF50005491, 125V, 5A
⚠Z895	23144543	Protector, PRF50005491, 125V, 5A
⚠Z896	23144539	Protector, PRF20005491, 125V, 2A
Z897	23144539	Protector, PRF20005491, 125V, 2A
⚠Z899	23144539	Protector, PRF20005491, 125V, 2A
ZC01	23107626	Filter, TEM1022
ZD101	23153325	Ceramic Resonator, 8.00M, TCR1056
ZT01	23153736	Ceramic Resonator, TCR1025
ZX201	23103823	Filter, TEM2027D
ZX301	23303181	Filter, TEM1012N
ZX302	23303181	Filter, TEM1012N
ZX531	23103823	Filter, TEM2027D

PC BOARD ASSEMBLIES

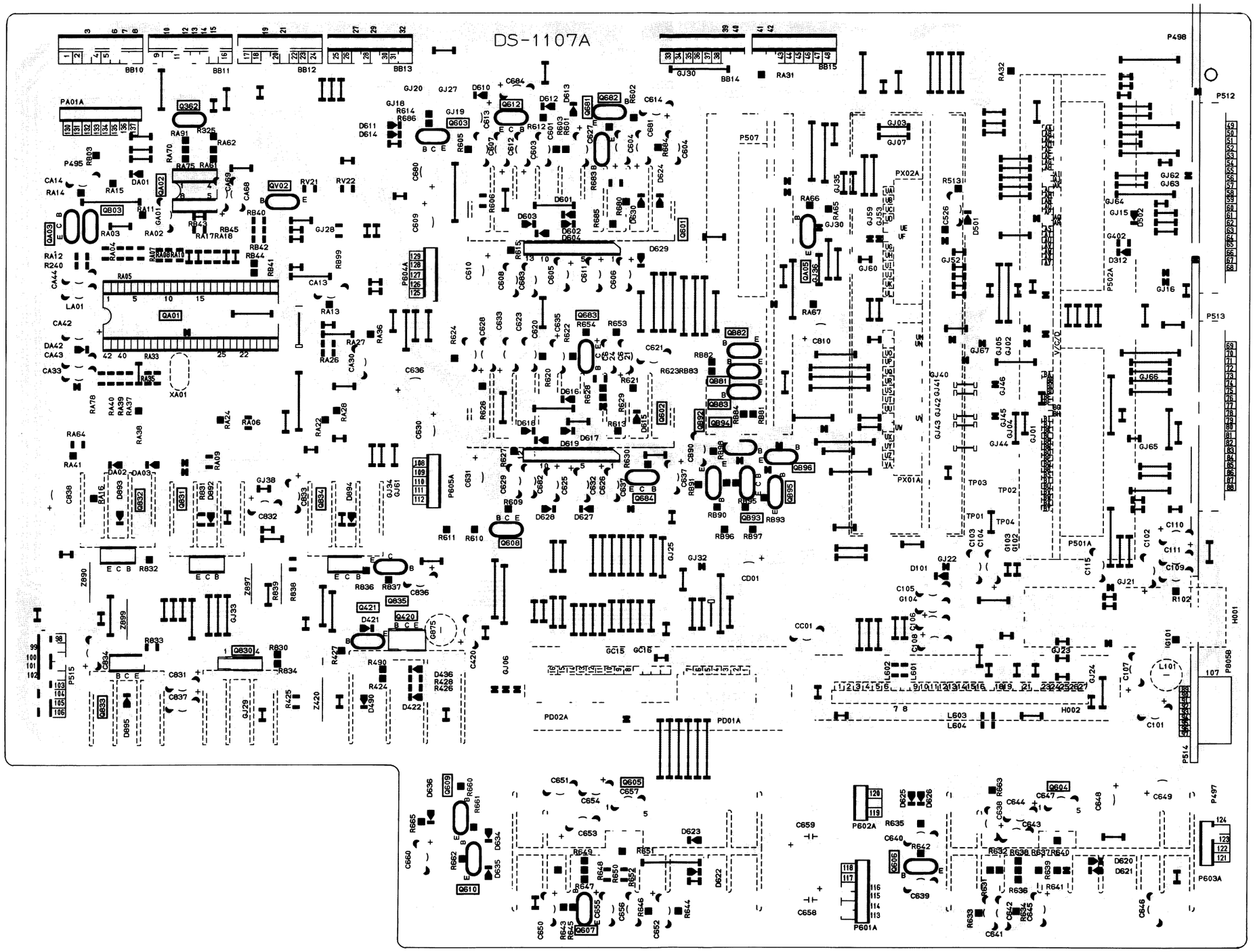
✻U101A	23782134	DOLBY-D Board, PB8210Y-1
✻U101B	23782135	DIGITAL-IN Board, PB8210Y-2
✻U102	23781835	Back-T Board, PB8058
✻U103	23781836	VCD Board, PB8059

Location No.	Part No.	Description
✻ U104A	23781837	TEXT Board, PB7928
✻ U105A	23781758	DIGITAL-SCADN Board, PB8009X
✻ U901	23781838	CRT Drive Board, PB7212U
✻ U902A	23781842	Signal Board, PB7936Y
✻ U903	23781839	Power Board, PB7937Y
✻ U904	23781840	DEF Board, PB7938Y
✻ U905	23781841	EW100HZ Board, PB8061X
✻ U906A	23781640	Control-1 Board, PB7939X-1
✻ U906B	23781641	Control-2 Board, PB7939X-2
PICTURE TUBE		
⚠ V901	23312764	Picture Tube, M90AHL50X32
TUNER		
H001	23321316	Tuner, EGA21LX2
ACCESSORIES		
K902	23306217	Remote Hand Unit, CT-9901
AT04	23305572	Battery Cover
Y101	23563363	Owner's Manual, English, 3788DG
Y102	23563364	Owner's Manual, French, 3788DG
Y103	23563365	Owner's Manual, German, 3788DG
Y104	23563366	Owner's Manual, Italian, 3788DG
CABINET PARTS		
A201S	23510524	Front Cover
A214	23035412	Screw, BTB4X12 SZN
A215	23035412	Screw, BTB4X12 SZN
A216	23035412	Screw, BTB4X12 SZN
A231	23445154	Button, Power
A233	23430441	Lens, Remote
A234	23430443	Piece, LED
A236	23519929	Speaker Grille, L/R
A238	23519930	Speaker Grille, Center
A239	23460951	Trim, Control
A241	70368125	Push Catch for Door
A242	23427378	Door, Right
A243	23427512	Door
A245	23430453	Button, Key
A246	23427422	Piece, Control
A248	23460971	Piece, Control
⚠ A401	23427423	Back Cover
A403	23796146	Woofer Box Assembly
A411	23550037	Label, Model No.
A420	23460952	Trim, Back Term
A701	23525656	Carton
A702	23935751	Packing, Bottom
A703	23935752	Packing, Top
A704	23525573	Tray
A709	23845450	Joint
A710	23550038	Label, Carton

Location No.	Part No.	Description

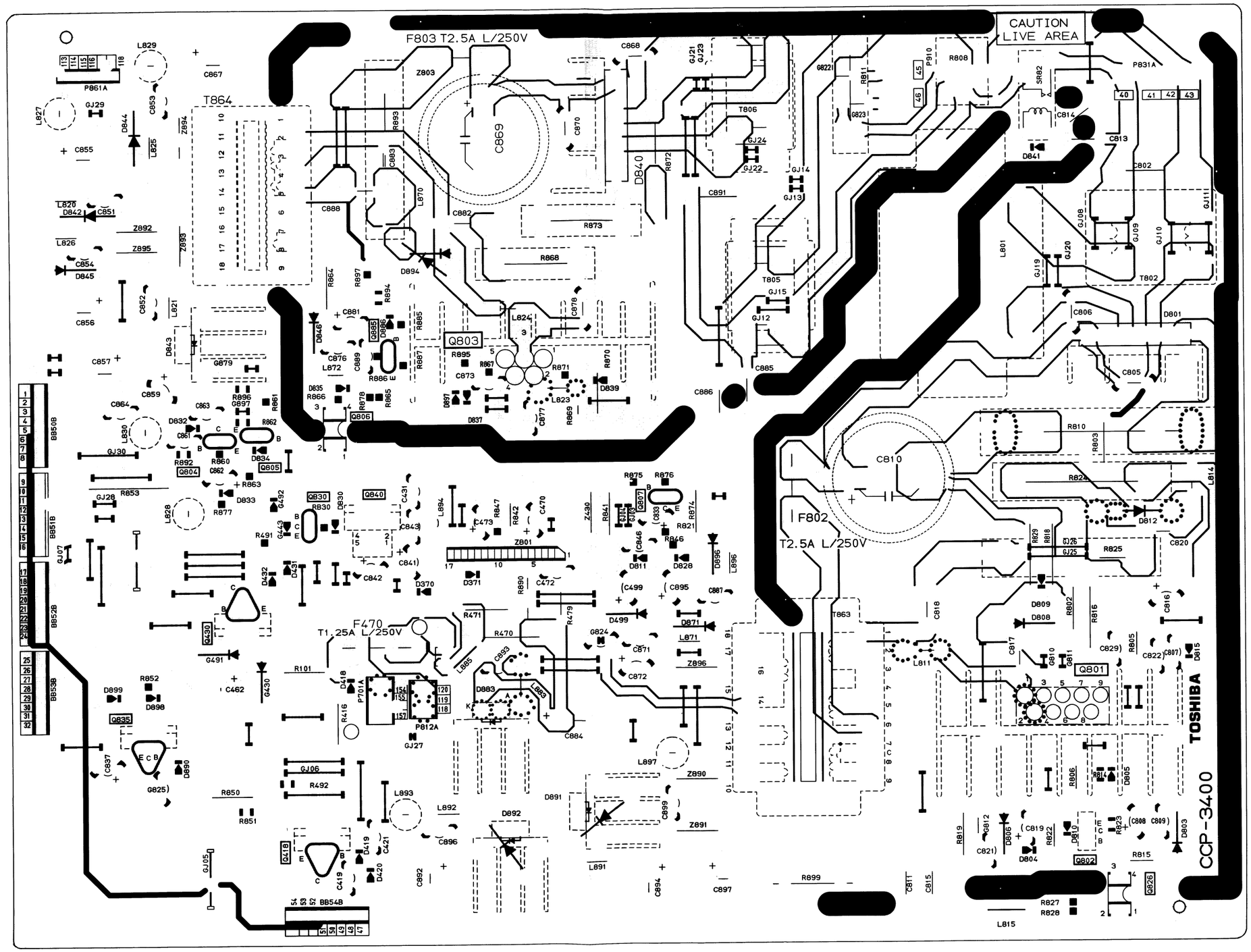
SIGNAL BOARD PB7936Y

BOTTOM (FOIL) SIDE



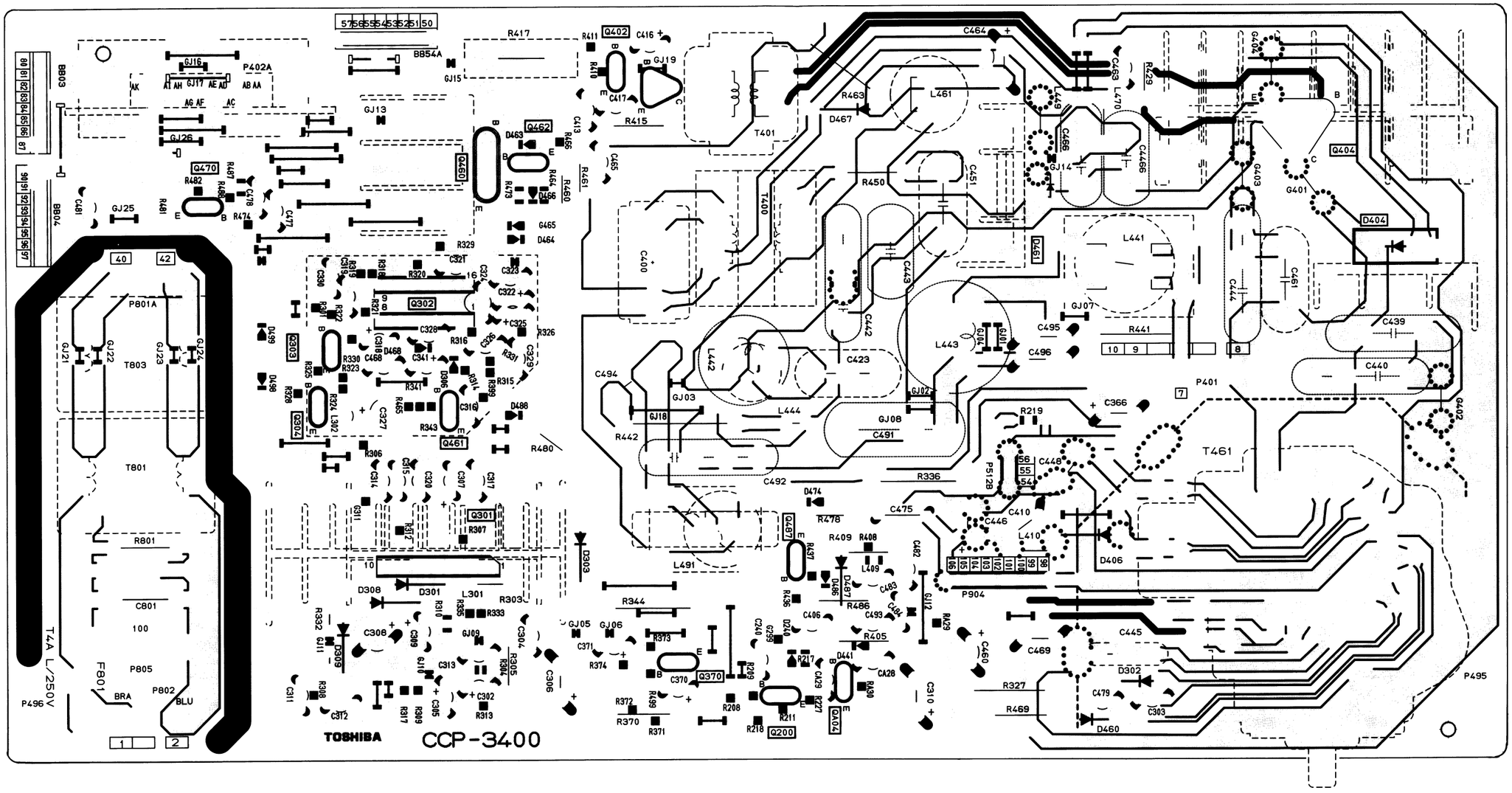
POWER/DEF BOARD PB7937Y

BOTTOM (FOIL) SIDE



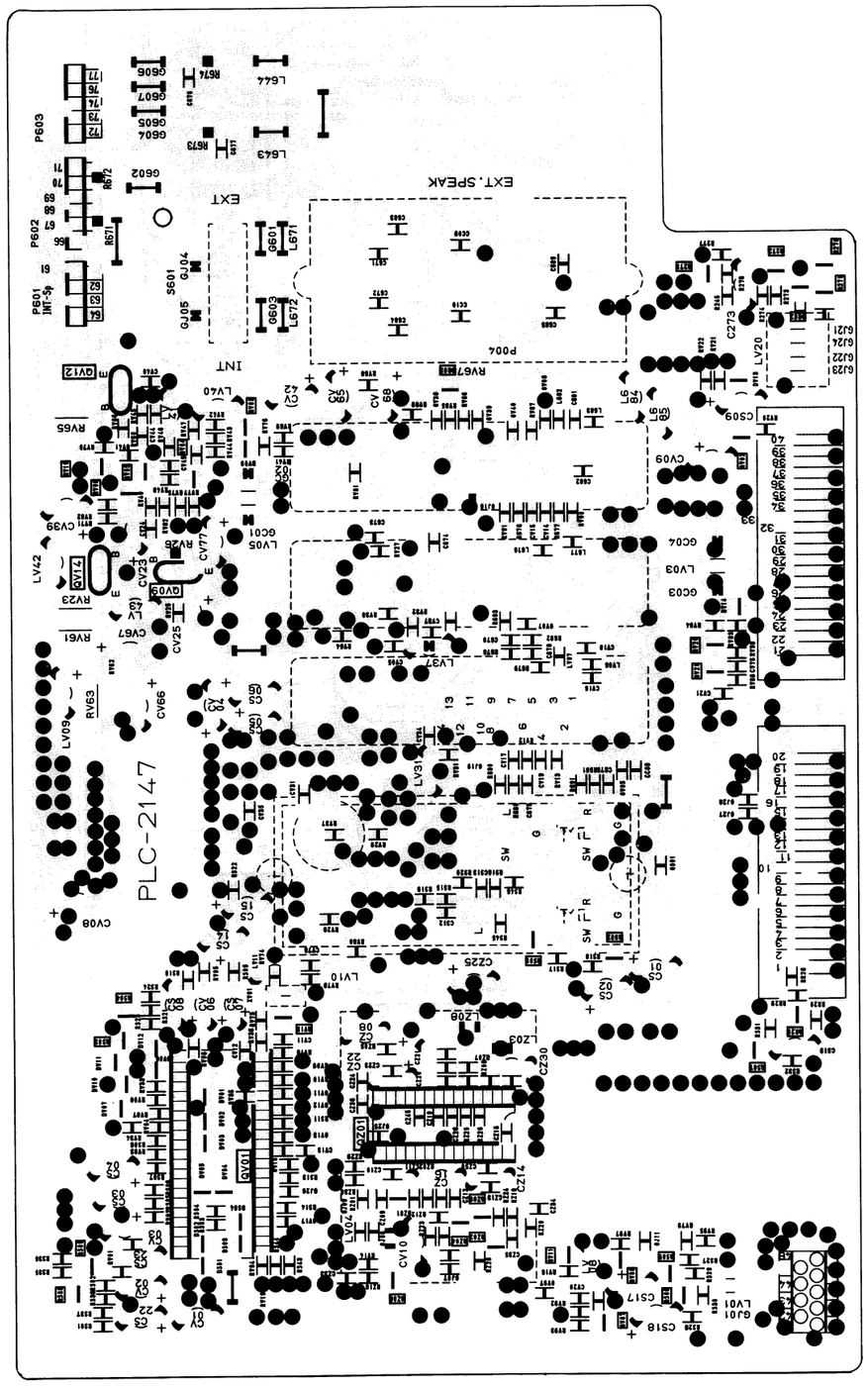
DEF BOARD PB7938Y

BOTTOM (FOIL) SIDE



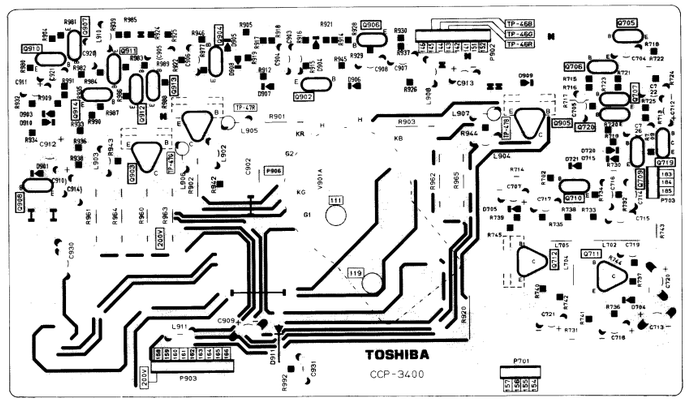
BACK TERMINAL/AV BOARD PB8058

BOTTOM (FOIL) SIDE



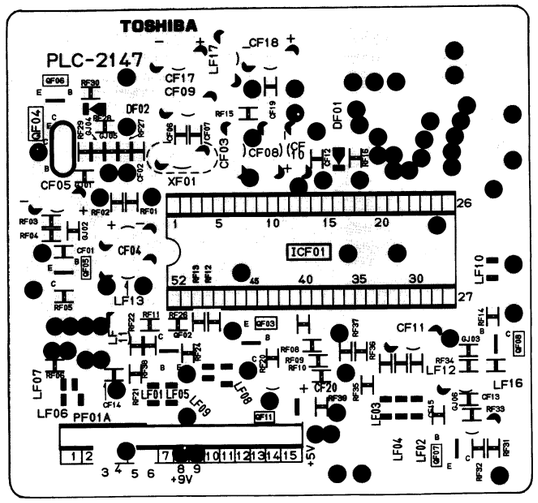
CRT DRIVE/DSM BOARD PB7212U

BOTTOM (FOIL) SIDE



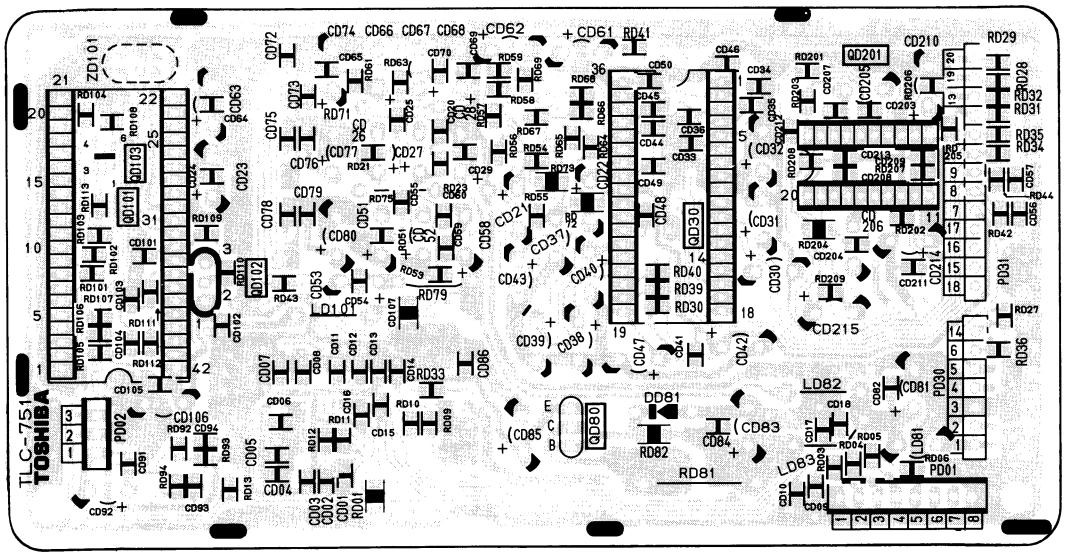
TEXT BOARD PB7928Z

BOTTOM (FOIL) SIDE



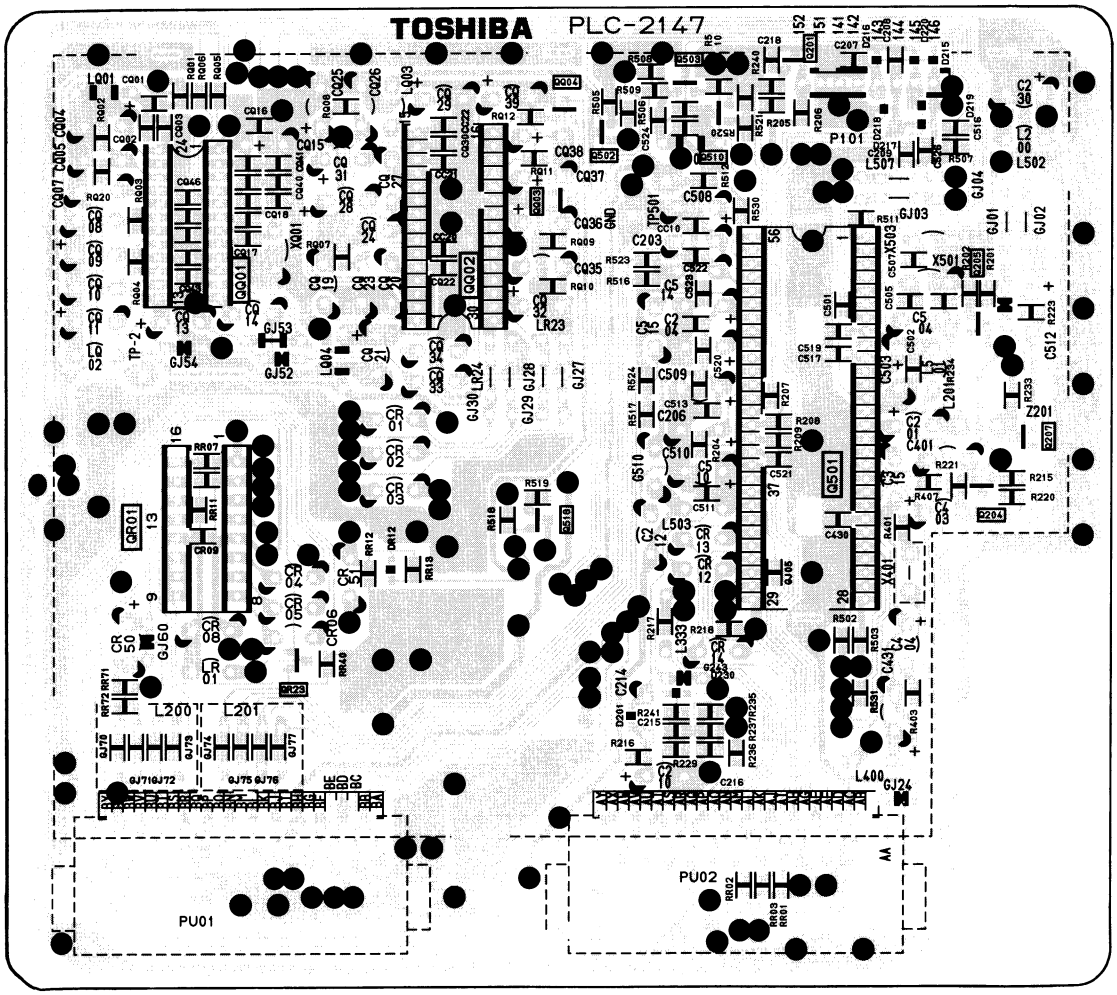
DOLBY BOARD PB8210Y-1

BOTTOM (FOIL) SIDE



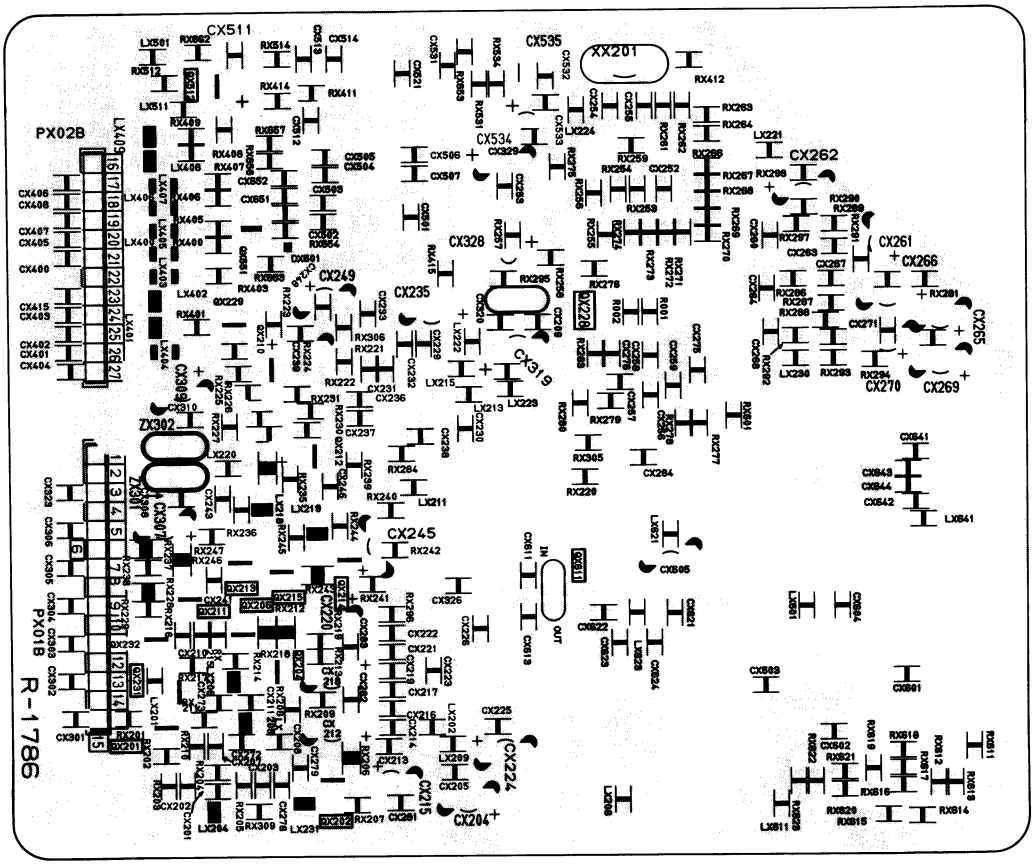
V/C/D BOARD PB8059

BOTTOM (FOIL) SIDE



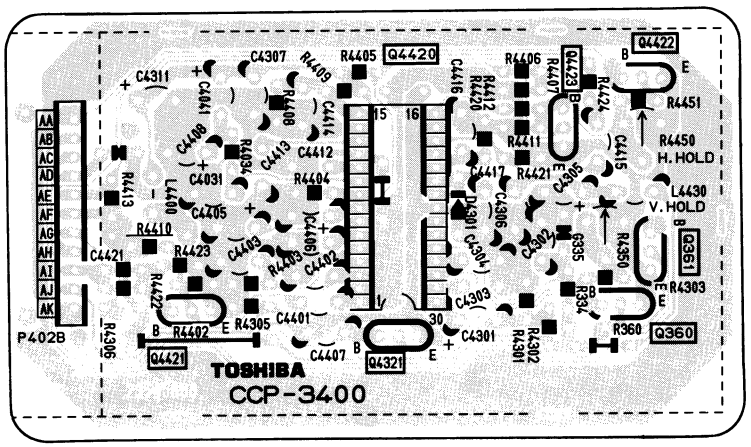
DIG-SCAN BOARD PB8009X

BOTTOM (FOIL) SIDE



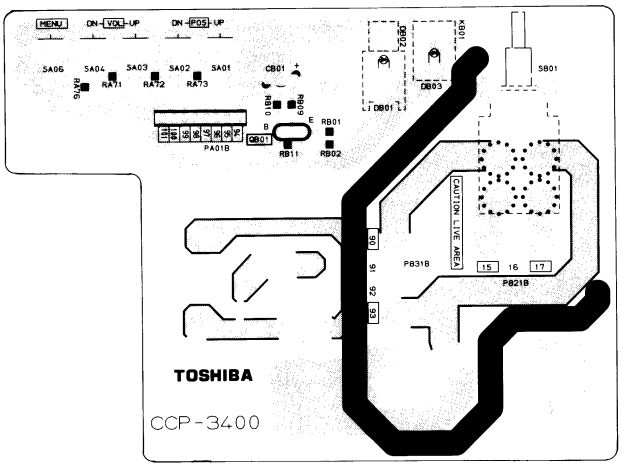
EW 100Hz BOARD PB8061X

BOTTOM (FOIL) SIDE



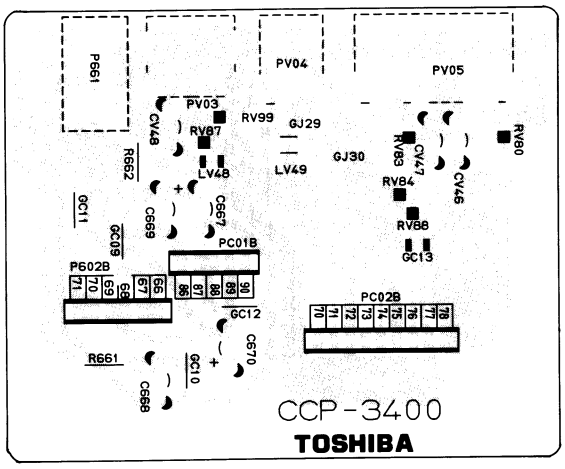
CONT-1 BOARD PB7939X-1

BOTTOM (FOIL) SIDE



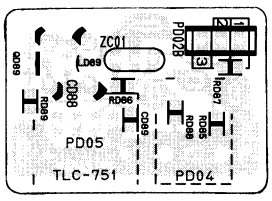
CONT-2 BOARD PB7939X-2

BOTTOM (FOIL) SIDE



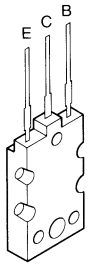
DIG INPUT BOARD PB8210Y-2

BOTTOM (FOIL) SIDE

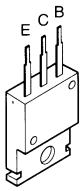


TERMINAL VIEW OF TRANSISTORS

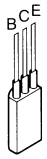
① 2SD2253
(old)
2SC5243



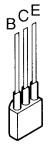
② 2SC3852
2SD1763A
2SC1569
2SC4544
2SA1788
2SA1306
2SA1186A



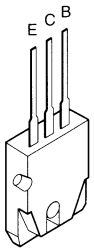
③ 2SC752GTM
2SC2482
2SC2655
2SC4721P



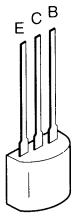
④ 2SC752
2SA562TM
2SA1015
2SC1815
2SC2878
2SC1740S
2SC2120
2SA9335



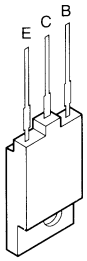
⑤ 2SA1788



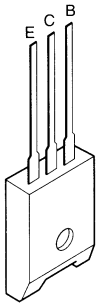
⑥ RN2203
RN2201
RN2004
RN1203
RN1204
RN2204
RN1205
RN1202
RN1201



⑦ 2SD1554
2SD2253
2SD1556
2SC5143



⑧ ON4409



SCHEMATIC DIAGRAM MODEL : 3788DG (1/6)

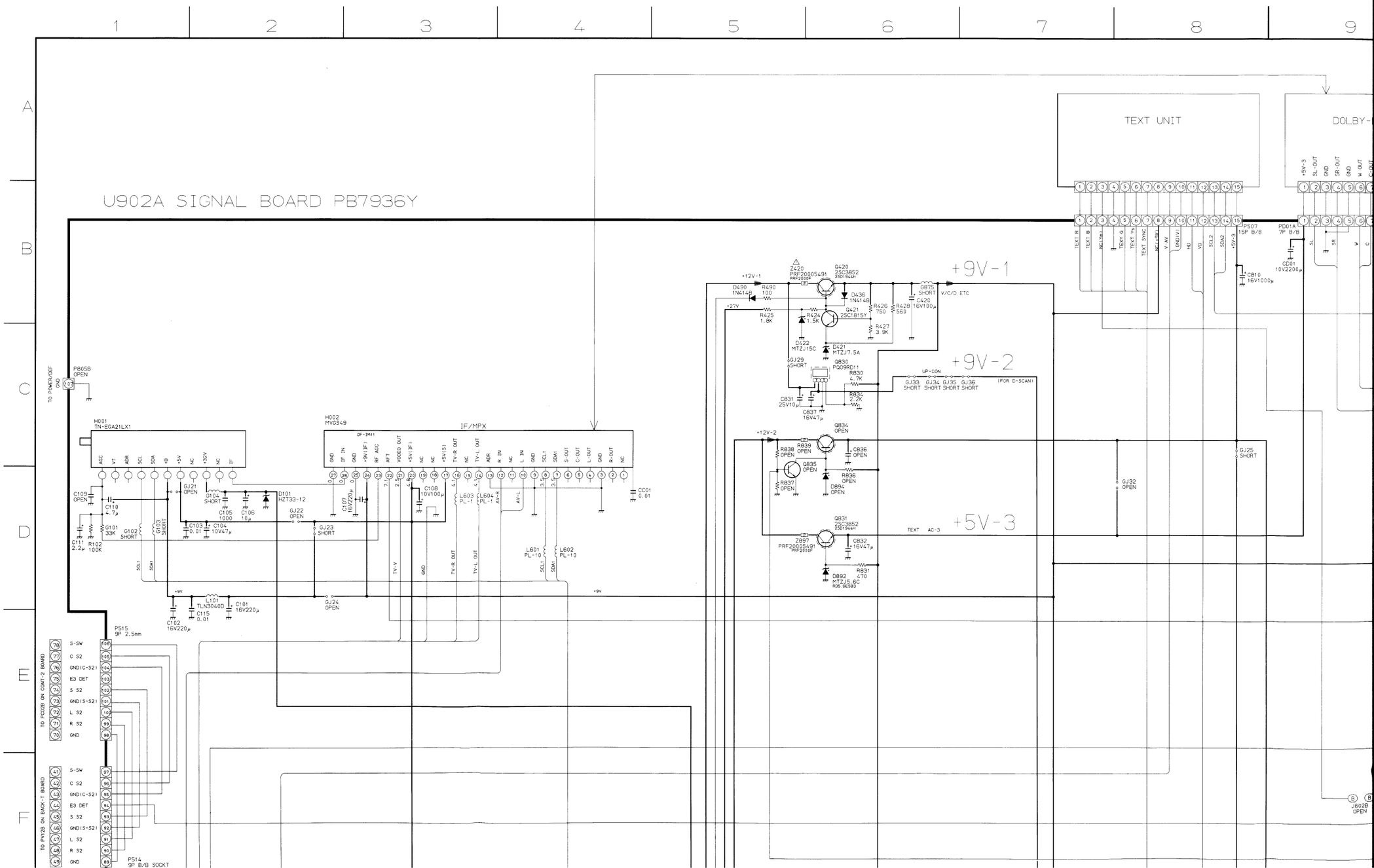
CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not degrade the safety of the receiver through improper servicing.

OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary ±20%.
2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
3. Waveforms are taken using a standard colour bar signal.
4. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

NOTES:

1. D.C. resistance value of a principal t
gram. These are measured for separat
2. The circuits are subject to change wit
3. ● : Solder links.



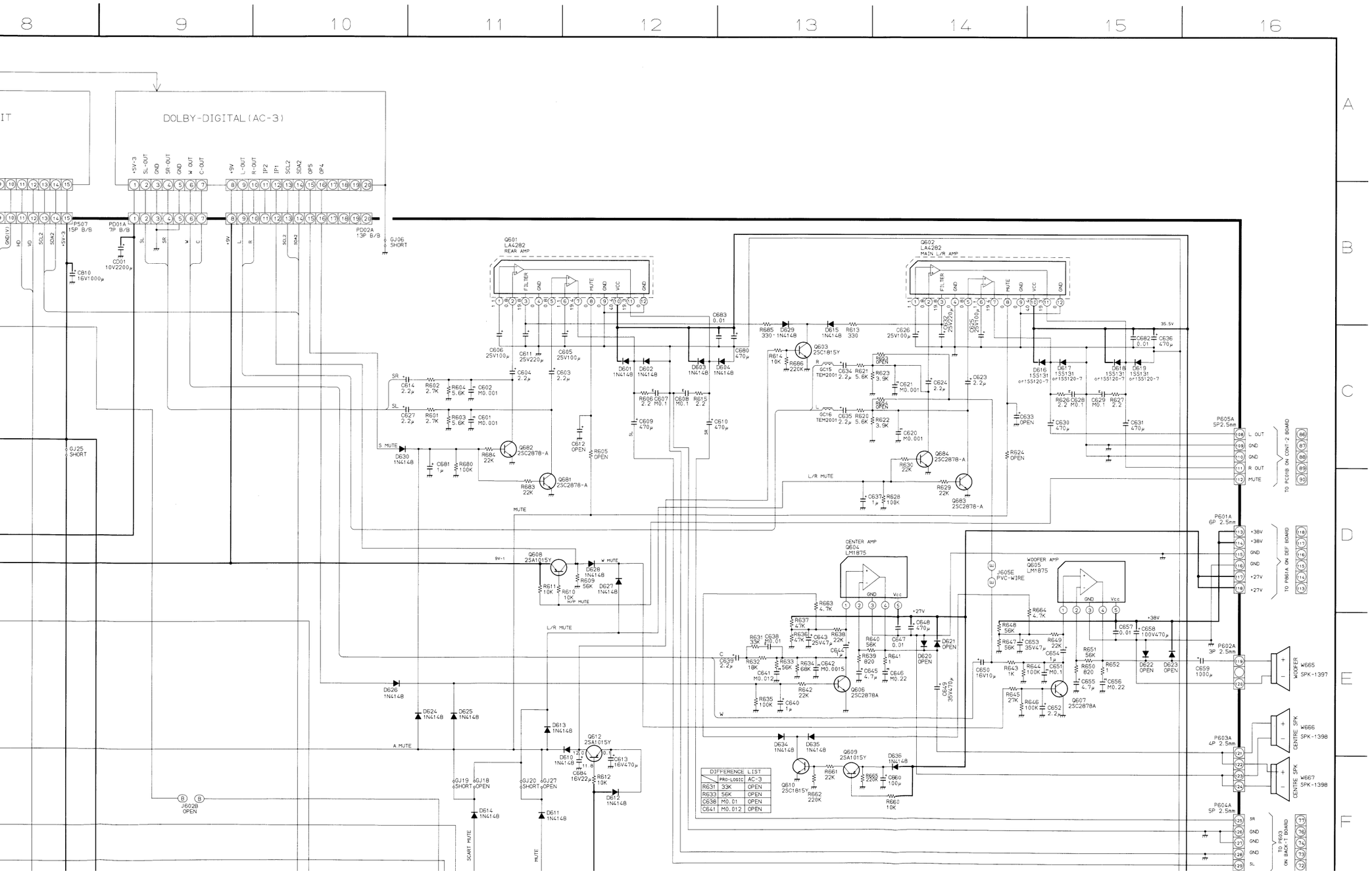
TES:

.C. resistance value of a principal transformer is shown in this schematic dia-
ram. These are measured for separated from the circuit.
he circuits are subject to change without notice.
● : Solder links.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.



DIFFERENCE LIST		
	PRO-U0610	AC-3
R631	33K	OPEN
R633	56K	OPEN
C638	M0.01	OPEN
C641	M0.012	OPEN

UNIT BOARD

POWER UNIT BOARD

SIGNAL
3788DG 1/6
PK2681

TO PG02B ON CONT BOARD

S S2 — GND(S-S2) — L S2 — R S2 — GND

TO PV12B ON BACK-T BOARD

S-SW — C S2 — GND(C-S2) — E3 DET — S S2 — GND(S-S2) — L S2 — R S2 — GND

P514
9P B/B SOCKT

P513
20P B/B SOCKT

TO PV10B ON BACK-T BOARD

A-MUTE — RGB-DIS — GND — AV-L — AV-R — AV C — GND(C) — GND(21PIN) — 21 PIN B — 21 PIN G — 21 PIN R — 21 PIN Ys — GND — +9V-1 — GND — GND(FSC) — FSC — +5V-2 — SCL-1 — SDA-1

TO PV11B ON BACK-T BOARD

GND(V) — AV-V — +9V-1 — GND — SCP — EASY-LINK — RGB-DET — GND — AV-Y — GND(Y) — SYNC-AV1 — GND — GND — TV-V — GND(TV-V) — TV-R — TV-L — GND(SGV) — SGV — SGA

P512
20P B/B SOCKT

+9V-1

GJ16 SHORT — GJ15 OPEN

Y-AV — GND(Y) — SYNC-AV1 — TV-V — GND — TV-R — TV-L — GND(SGV) — SGV — SGA

GJ57 OPEN

GJ07 OPEN — GJ03 OPEN — GJ05 OPEN — GJ02 OPEN

GJ56 SHORT — GJ54 SHORT — GJ55 OPEN — GJ60 OPEN — GJ61 OPEN

GJ64 OPEN

GJ45 OPEN — GJ46 SHORT

GJ65 OPEN — GJ66 OPEN

GJ67 OPEN

GJ58 SHORT — GJ62 OPEN — GJ59 OPEN

GJ63 OPEN — GJ52 SHORT — GJ53 OPEN

GJ01 OPEN

TP02 — TP03 — TP04 — TP01

P501A
25P SOCKT

P502A
25P SOCKT

PX01A
15P B/B

PX02A
12P B/B

BB15
B8 8P

BB14
B8 8P

GJ31 OPEN

GJ30 OPEN

RA65 10K — RA66 2SC7526TM-Y 10K — RA67 4.7K — RA32 2.2K — RA33 560

Z890 PRF20005491 (PRF2000F038) — C838 OPEN — Q832 2SC3852 2SD1944H — GJ38 SHORT — GJ37 SHORT — C833 16V47μ — R832 470 — D893 MTZJ5.6B RD5.6B3A B2

+8V — UP CONVTER — +5V-4

Z899 PRF20005491 (PRF2000F038) — Q833 2SC3852 2SD1944H — C834 16V47μ — R833 470 — D895 MTZJ5.6C RD5.6B3A B3

OTHER — +5V-2

Q890 2SC1815Y — R890 3.9K — R892 270 — Q894 2SA1015Y — R891 47K — R894 2.2K — Q893 2SA1015Y — R898 1K — C890 0.01 — R893 270 — R897 27K — R895 2.2K — Q895 2SA1015Y — Q896 2SA1015Y

D502 1N4148 — D312 1N4148 — D501 1N4148 — C526 100 — R402 SHORT — R513 4.7K — R514 4.7K

J640 PVC-WIRE

J601A PVC-WIRE

J602 OPEN

VD — HD

SDA1 — SCL1

TP04 TP01 — TP02 — TP03

GND(V) — AV-V — Y-AV — GND(Y) — SYNC-AV1 — TV-V — GND — TV-R — TV-L — GND(SGV) — SGV — SGA

Y-AV — GND(Y) — AV-C — GND(C) — SCL1 — SDA1

21PIN-Ys — GND(21PIN) — 21PIN-R — 21PIN-G — 21PIN-B — VD

TEXT SYNC — TEXT G — TEXT YS — TEXT B — TEXT R

SDA1 — SCL1

V/C/D

ABL — TP-2 — TP-1 — fsc — +12V-3 (FOR 50Hz MODELS) — Y-OUT — GND(Y-OUT) — U-OUT — GND(U-OUT) — V-OUT — GND(V-OUT) — Y-IN — GND(Y-IN) — U-IN — GND(U-IN) — V-IN — +9V-1 — +5V-2 — SCP — Y-AV — GND(Y-AV) — C-AV — GND(C-AV) — SCL1 — SDA1 — B-MASK — CLAMP — BLANK — E1-YS — GND(E1) — E3-R — E2-G — E1-B — GND — VD(V-OUT) — HD(H-OUT) — C SYNC — TEXT SYNC — TEXT G — TEXT YS — TEXT B — TEXT R — WPD — GND — AFC — MAGARI

DIGITAL-SCAN UNIT BOARD

Y IN — GND — B-Y IN — GND — R-Y IN — GND — Y OUT — GND — U OUT — GND — V OUT — GND — +9V-2 — +5V-4 — GND — HD 15K — SCL — SDA — VD 5V — SCP2 — GND — B MASK — BF OUT 100Hz — CLAMP — BLK — HD OUT 15kHz — GND

DEF UNIT BOARD

RASTER-SW — WPD — MAGARI — +9V-1 — SDA-1 — SCL-1 — H GND — H OUT — FBT 8"/10" — V GND — V OUT — AFC — V-BLK — ABL — GND — ABL SW — +12V-3

BB04 — BB03 — BB536

1 2 3 4 5 6 7 8 9

F G H I J K L

SCHEMATIC DIAGRAM MODEL : 3788DG (2/6)

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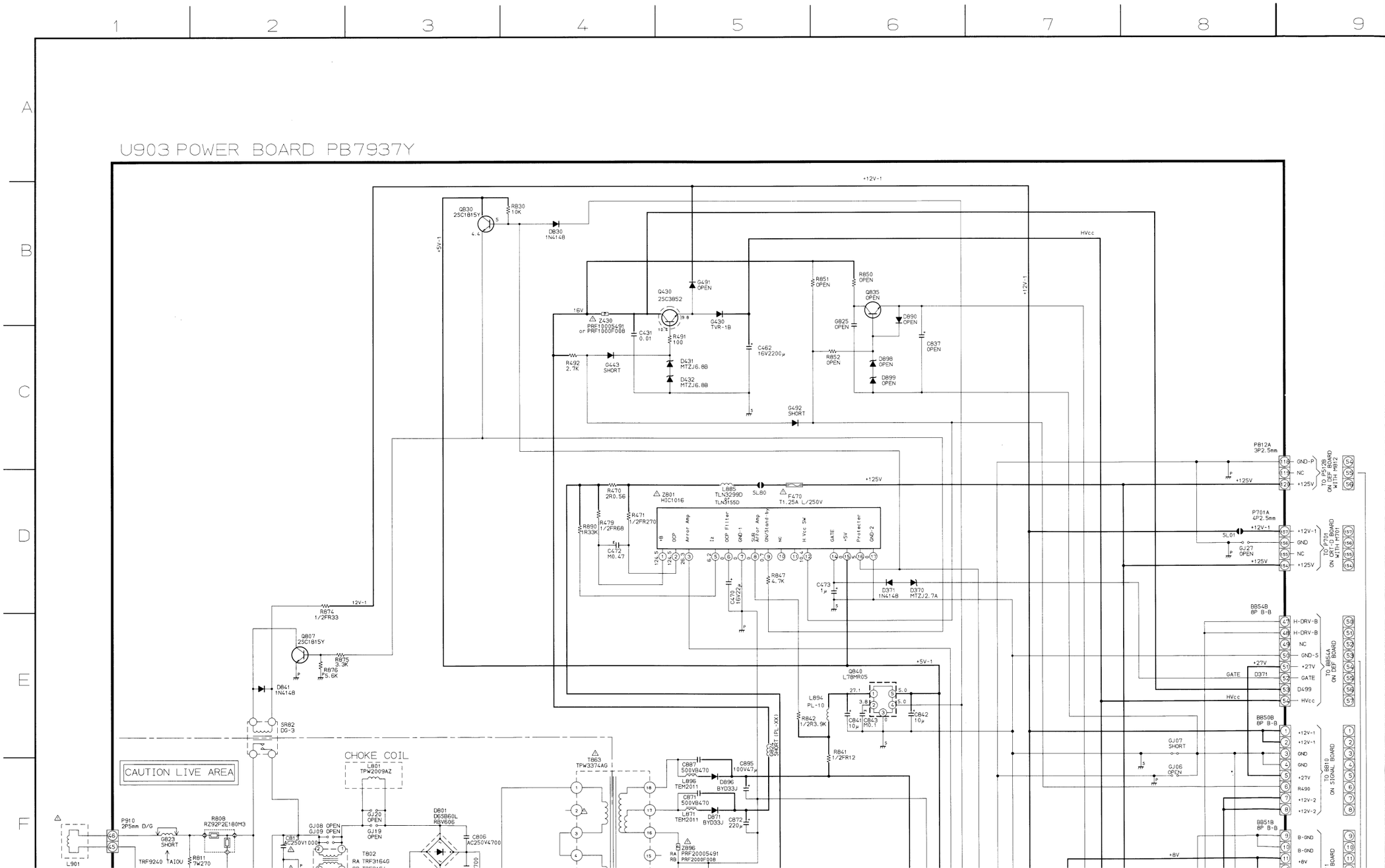
NOTES:

1. D.C. resistance value of a principal tr
gram. These are measured for separate
2. The circuits are subject to change with
3. ⬬ : Solder links.



ES:

C. resistance value of a principal transformer is shown in this schematic dia-
am. These are measured for separated from the circuit.
e circuits are subject to change without notice.
: Solder links.

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VALUE OF RESISTOR, CAPACITOR and INDUCTOR

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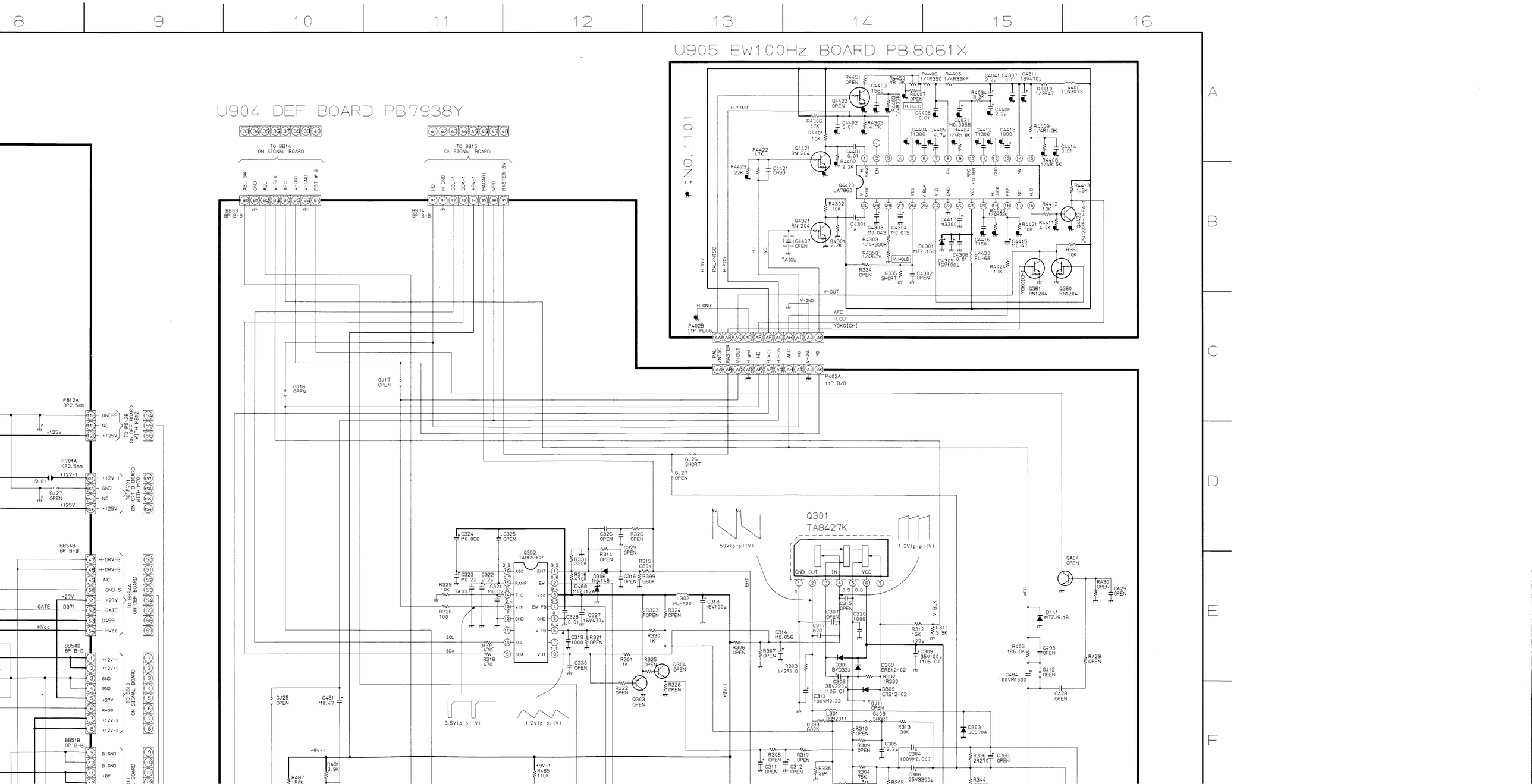
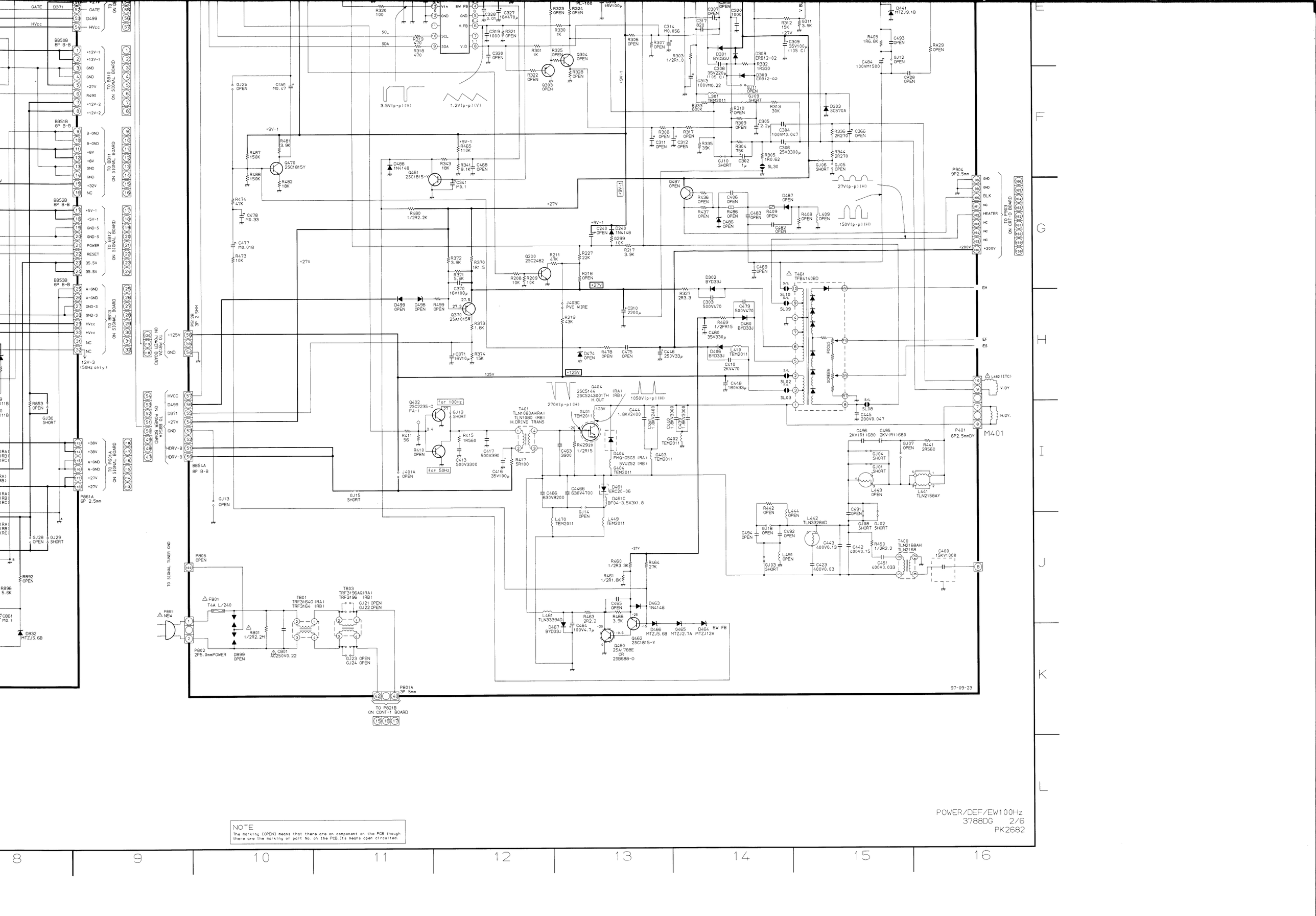



GATE
HVcc
BB50B 8P B-B
+12V-1
+12V-1
GND
GND
+27V
R490
+12V-2
+12V-2
TO BB1B ON SIGNAL BOARD
BB51B 8P B-B
B-GND
B-GND
+8V
+8V
GND
GND
+32V
NC
TO BB1A ON SIGNAL BOARD
BB52B 8P B-B
+5V-1
+5V-1
GND-S
GND-S
POWER
RESET
35.5V
35.5V
TO BB12 ON SIGNAL BOARD
BB53B 8P B-B
A-GND
A-GND
GND-S
GND-S
HVcc
HVcc
NC
NC
TO BB13 ON SIGNAL BOARD
12V-3 (50Hz only)
P861A 6P 2.5mm
+38V
+38V
A-GND
A-GND
+27V
+27V
TO P861A ON SIGNAL BOARD
R853 OPEN
GJ30 SHORT
R892 OPEN
R896 5.6K
C861 M0.1
D832 MTZJ5.6B
GJ28 OPEN
GJ29 SHORT
P872B 9P 2.5MM
+125V
GND
TO P872A ON POWER BOARD
HVCC
D499
D371
+27V
GND
HDRV-B
HDRV-B
TO BB54A ON POWER BOARD
BB54A 8P B-B
J401A OPEN
GJ15 SHORT
GJ13 OPEN
SCL
SDA
R319 470
R318 470
Vin
GND
EW FB
GND
V.FB
SCL
SDA
V.D
C328 0.01
C327 16V470μ
C319 1000
R321 OPEN
C330 OPEN
C329 16V100μ
R323 OPEN
R324 OPEN
R330 1K
R301 1K
R325 OPEN
Q304 OPEN
R322 OPEN
Q303 OPEN
R328 OPEN
3.5Vp-p(V)
1.2Vp-p(V)
R306 OPEN
C314 M0.056
R307 OPEN
R303 1/2R1.0
C317 R20
C307 OPEN
C320 1000
D301 BYD33J
D308 ERB12-02
R332 1R330
C308 35V220μ (105 C)
D309 ERB12-02
C313 100VM0.22
GJ11 OPEN
GJ09 SHORT
L301 TEM2011
R333 680K
R310 OPEN
R313 30K
R309 OPEN
C305 2.2μ
C304 100VM0.047
C306 25V3300μ
R304 75K
R305 1R0.62
SL30
C302 1μ
GJ10 SHORT
GJ06 SHORT
GJ05 OPEN
D303 SCS70A
R336 2R270
C366 OPEN
R344 2R270
27Vp-p(H)
R312 15K
+27V
R311 3.9K
C309 35V100μ (105 C)
D441 MTZJ9.1B
R405 1R6.8K
C493 OPEN
C484 100VM1500
GJ12 OPEN
RA29 OPEN
C428 OPEN
R308 OPEN
R317 OPEN
C311 OPEN
C312 OPEN
R335 39K
C481 M0.47
GJ25 OPEN
+9V-1
R481 3.9K
R487 150K
Q470 2SC1815Y
R488 150K
R482 18K
D488 1N4148
R343 1BK
R341 9.1K
C468 OPEN
Q461 2SC1815-Y
C341 M0.1
R465 110K
R474 47K
C478 M0.33
C477 M0.018
R473 10K
R480 1/2R2.2K
+27V
D240 1N4148
C240 OPEN
G299 10K
R217 3.9K
R372 3.9K
R370 1R1.5
R371 5.6K
C370 16V100μ
27.5
Q200 2SC2482
R211 47K
R227 22K
R218 OPEN
R208 10K
R209 10K
+27V
D499 OPEN
D498 OPEN
R499 OPEN
27.9
Q376 2SA1015Y
R373 1.8K
C371 16V10μ
R374 15K
J403C PVC WIRE
R219 43K
C310 2200μ
D474 OPEN
R478 OPEN
C475 OPEN
C446 250V33μ
125V
+125V
270Vp-p(H)
Q404 2SC5144 (RA) 2SC5243001TH (RB) H.OUT
1050Vp-p(H)
Q402 2SC2235-O FA-1
for 100Hz
for 50Hz
GJ19 SHORT
R411 56
R410 OPEN
R415 1R560
C413 500V3300
T401 TLN1080AHRA TLN1080 (RB) H.DRIVE TRANS
C417 500V390
R417 5R100
C416 35V100μ
Q401 TEM2011
123V
-20
R42920 1/2R15
C463 3900
C444 1.8KV2400
C445 1.8KV2400
C440 1.8KV3000
C441 1.8KV3000
Q402 TEM2011
D404 FMQ-G5G5 (RA) 5VJ252 (RB)
Q404 TEM2011
Q403 TEM2011
C466 630V8200
C4466 630V4700
D461 ERC20-06
D461C BP04-3.5X3X1.8
GJ14 OPEN
L470 TEM2011
L449 TEM2011
D302 BYD33J
R327 2R3.3
C303 500V470
C479 500V470
R469 1/2R15
D460 BYD33J
C460 35V330μ
D406 BYD33J
L410 TEM2011
C410 2KV470
C448 160V33μ
T461 TFB4140BD
SL10
SL09
SL02
SL03
SL08
C445 200V0.047
FOCUS
SCREEN
EH
EF
ES
P904 9P2.5mm
GND
GND
BLK
NC
HEATER
NC
NC
NC
+200V
+200V
TO P903 ON CRT-D BOARD
150Vp-p(H)
L462 (ITC)
V.DY
H.DY.
P401 6P2.5mmDY
M401
C496 2KV(R)1680
C495 2KV(R)1680
GJ07 OPEN
R441 2R560
GJ04 SHORT
GJ01 SHORT
L443 OPEN
L441 TLN2158AY
C491 OPEN
GJ08 SHORT
GJ02 SHORT
R442 OPEN
L444 OPEN
L442 TLN332BAD
C494 OPEN
GJ18 OPEN
C492 OPEN
L491 OPEN
GJ03 SHORT
C443 400V0.13
C423 400V0.03
C442 400V0.15
R450 1/2R2.2
C451 400V0.033
T400 TLN2168AH TLN2168
C400 15KV1000
TO SIGNAL TUNER GND
P805 OPEN
P801 NEW
F801 T4A L/240
R801 1/2R2.2M
T801 TRF3164G (RA) TRF3164 (RB)
T803 TRF3196AQ(RA) TRF3196 (RB)
GJ21 OPEN GJ22 OPEN
C801 AC250V0.22
GJ23 OPEN GJ24 OPEN
P802 2P5.0mmPOWER
D899 OPEN
P801A 3P 5mm
TO P821B ON CONT-1 BOARD
R460 1/2R3.3K
R464 27K
R461 1/2R1.8K
C465 OPEN
D463 1N4148
L461 TLN3339AD
D467 BYD33J
C464 100V4.7μ
R463 2R2.2
R466 3.9K
Q460 2SA1788E OR 2SB688-O
Q462 2SC1815-Y
D466 MTZJ5.6B
D465 MTZJ2.7A
D464 MTZJ12A
EW FB
97-09-23
NOTE
The marking (OPEN) means that there are on component on the PCB though there are the marking of part No. on the PCB. Its means open circuited.
POWER/DEF/EW100Hz
3788DG 2/6
PK2682

CAUTION LIVE AREA

CHOKE COIL

L801 TPW2009AZ

D841 1N4148

SR82 DG-3

L901 TSB-237BAR

P910 2P5mm D/G

R808 RZ92P2E180M3

GB23 SHORT

GB22 SHORT

TRF9240 TAIOU

R811 1W270

GJ08 OPEN GJ09 OPEN

GJ20 OPEN

GJ19 OPEN

C812 AC250V1000

C814 AC250V1000

GJ10 OPEN GJ11 OPEN

T802 RA TRF3164G RB TRF3164

D801 DS9860L RBV606

C806 AC250V4700

C805 AC250V4700

RB10 20W3.0 5N24887492

C810 400V330μ 24086869

F802 2.5A L/250V

T863 TPW3374AG

C887 500VB470

D896 BYD33J

C895 100V47μ

L896 TEM2011

C871 500VB470

L871 TEM2011

D871 BYD33J

C872 220μ

Z896 RA PRF20005491 RB PRF2000F008

C893 2KVIR1J220

L883 TRF9253D

D883 FML-G16S

C884 160V330μ

L894 PL-10

R842 1/2R3.9K

C841 10μ

C843 M0.1

C842 10μ

R841 1/2FR12

GJ24 SHORT (FL-XX)

HVcc

D499

BB50B 8P B-B

+12V-1

GND

+27V

R490

+12V-2

TO BB10 ON SIGNAL BOARD

GJ07 SHORT

GJ06 OPEN

BB51B 8P B-B

B-GND

+8V

TO BB11 ON SIGNAL BOARD

R101 1W22K

+32V

BB52B 8P B-B

+5V-1

GND-S

POWER

RESET

35.5V

TO BB12 ON SIGNAL BOARD

BB53B 8P B-B

A-GND

HVcc

NC

TO BB13 ON SIGNAL BOARD

12V-3 (50Hz only)

GJ05 OPEN

P831B 4P5mm

TO P831B ON CONT. BOARD WITH M831

AC-

C802 AC275V0.22(RA) AC250V0.22(RB)

C811 AC250V2200

C815 AC250V470

L815 TEM2004

R819 1/2R2.2

Z890 PRF50005491 PRF5000F008

D891 FML-G12S

C894 16V3300μ

C897 16V3300μ

L897 TRF4100AZ (RA) TLN2026 (RB) TLN3312D (RC)

+8V

Z891 PRF50005491 or PR5000F

C896 500VB470

D892 FML-G12S

L892 TEM2011

C892 25V3300μ

L893 TRF4100AZ(RA) TLN2026 (RB) TLN3312D (RC)

+12V-1

R899 1R8.2M

R828 820

C846 M0.1

D811 1N4148

R846 560

D828 1N4148

R827 680

R821 100

C833 10μ

Q826 TLP621(GR-LF2) (RA) TLP721F(D4-GR,M) (RB)

R803 1R68K

R815 1/2R1K

Q801 STR-S6709

#1-#2(GND)

600V

500V

0

START UP

PRE REG

THERMAL

O V P

O S C

LATCH

PROPORTIONAL DRIVE

REF

C GND B bIN bOUT OCP F/B INH Vcc

0 -1.6 0.8 1.3 -0 0.2 1.2 8.5

T805 TRF3219AM 123211699

GJ15 OPEN

GJ12 OPEN

GJ13 OPEN

GJ14 OPEN

T806 OPEN

GJ23 SHORT

GJ21 SHORT

GJ22 SHORT

GJ24 SHORT

C885 AC250V220

C886 AC250V220

C891 AC275V0.1

D840 D3SB60

C868 AC250V4700

Z803 OPEN

F803 T2.5A L/250V

C869 400V120μ 24086871

C870 AC250V4700

R873 7W2.2

D894 RU1B

C888 0.01μ630V

R893 10W10K

C883 2KVIR1470

R864 1/2R22

T864 TPW3401AE

Z892 Z893 Z894 Z895 RA PRF50005491 RB PRF5000F008

C851 C852 C853 C854 500V470

C856 C857 C858 2200μ

C855 100V470μ

L827 TRF3100AZ (RA) TLN2026 (RB) TLN3312D (RC)

L828 TLN2026 (RA) TLN3312D (RB)

L829 TRF4100AZ (RA) TLN2026 (RB) TLN3312D (RC)

L830 TRF4100AZ (RA) TLN2026 (RB) TLN3312D (RC)

C851 C852 C853 C854 C856 C857 C858 C855 C867 2200μ C864 OPEN C859 25V1000μ

D842 RU4AM LFL1

D843 FML-G14S

D844 RU4Z LFL1

D845 BYD33J

L820 TEM2011

L821 TEM2011

L825 TEM2011

L826 TEM2011

TAIOU

GJ01 SHORT

GJ02 OPEN

GJ28 OPEN

GJ29 SHORT

+38V

A-GND

+27V

TO R601A ON SIGNAL BOARD

P861A 6P 2.5mm

R853 OPEN

GJ30 SHORT

D418 MTZJ30A

RA16 1/2R56K

Q418 2SC3852

C419 1000

D419 MTZJ11B

C421 M0.1

D420 MTZJ11B

D499 BYD33J

C499 35V220μ

GJ04 OPEN

GJ03 OPEN

C809 500VB470

D803 BYD33J

R806 1/2R3.9K

D810 1N4148

Q802 2SC3852

C821 500VB470

D806 BYD33J

GB12 SHORT

R823 2.7K

D805 1N4148

R814 1.2K

C829 M1800

C807 OPEN

C808 25V330μ

R922 1/2R10K

D804 MTZJ6.8B

C819 100V22μ

C822 M0.47

D815 MTZJ15B

GB11 SHORT

R816 2R6.8

C816 220μ

R805 1/2R100

GB10 SHORT

D808 BYD33J

R818 1R0.22

R829 1R0.22

D809 MTZJ5.6B

L811 TEM2011

C817 2KVIR1470

C818 1.25KVHT2200

GJ26 SHORT

R825 OPEN

GJ25 SHORT

R824 10W100

C820 2KVIR1680

D812 RU4A LF-L1 OR RU4AM LF-L1

L814 TRF9253D

R892 1R0.27

R869 1R0.27

D870 MTZJ6.8B

C878 2KVIR1330

R870 1R0.22

L824 TEM2011

L823 TEM2011

R871 620

Q803 STR-F6654

C877 500V100

R872 1R68K

D897 MTZJ6.8B

R885 100K

R894 330K

R897 330K

L870 TEM2011Y

C876 500V330

C881 25V100μ

C882 1.5KV1500

R865 2.7K

R878 OPEN

D837 1N4148

C873 M2700

R867 10K

R866 3.3K

R868 7W15

C889 M1000

R886 68K

D886 1N4148

Q885 2SA1015Y

R887 3.3K

Q806 TLP621(GR-F2) (RA) TLP721F(D4-GR,M) (RB)

R877 5.6K

R879 4.7K

R861 27K

R862 5.6K

GB97 SHORT

C863 M1200

Q805 2SC1815Y

Q804 2SC1815Y

R860 1K

R896 5.6K

C861 M0.1

D832 MTZJ5.6B

D833 1N4148

D834 1N4148

R863 100

C862 1μ

R892 OPEN

#2-#3

2V

0.5V

0.8V

GND

CAUTION LIVE AREA

1 2 3 4 5 6 7 8 9

F G H I J K L

SCHEMATIC DIAGRAM MODEL : 3788DG (3/6)

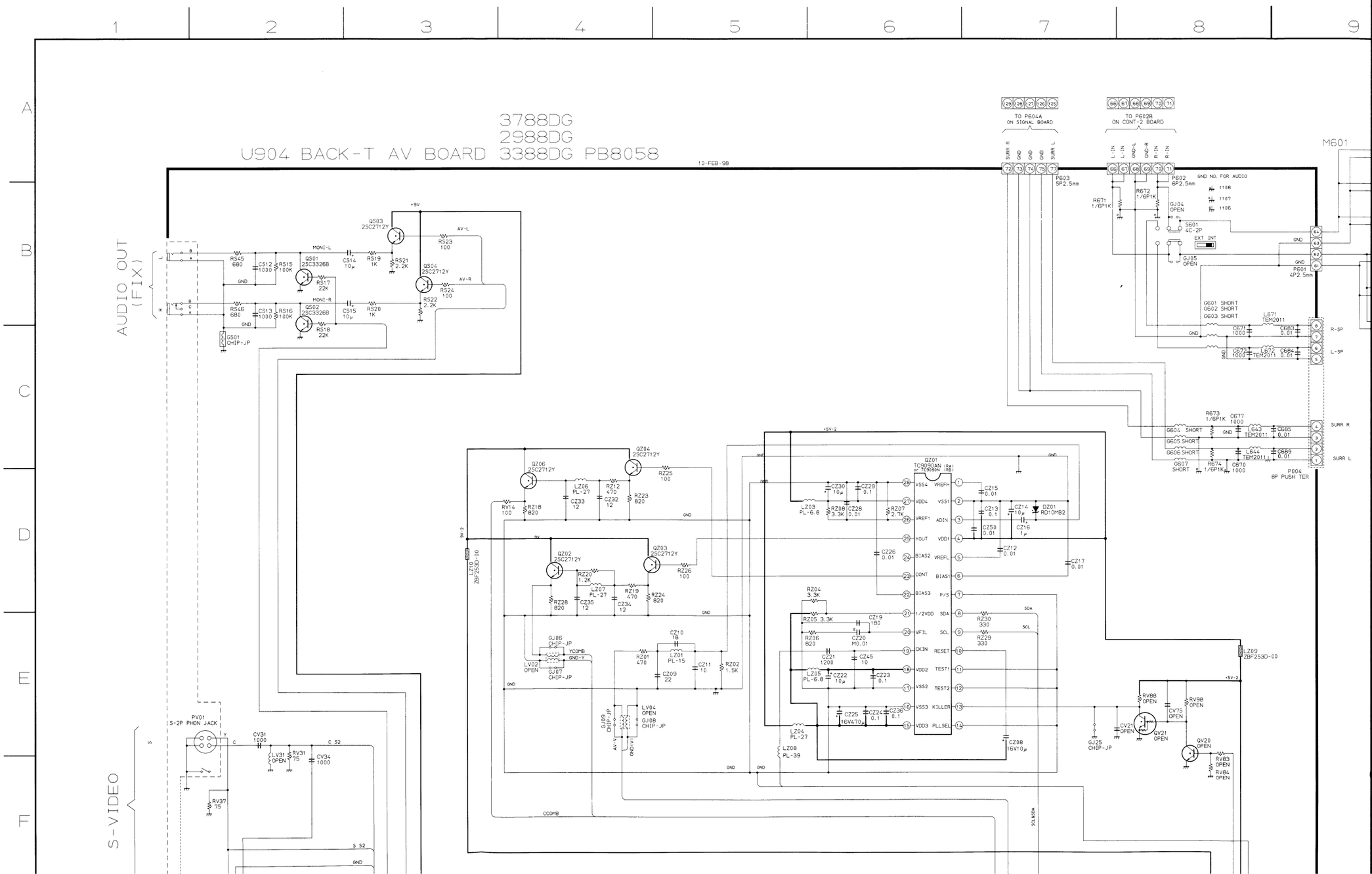
CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not degrade the safety of the receiver through improper servicing.

OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary ±20%.
2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
3. Waveforms are taken using a standard colour bar signal.
4. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

NOTES:

1. D.C. resistance value of a principal
   gram. These are measured for separa
2. The circuits are subject to change wi
3. ● : Solder links.



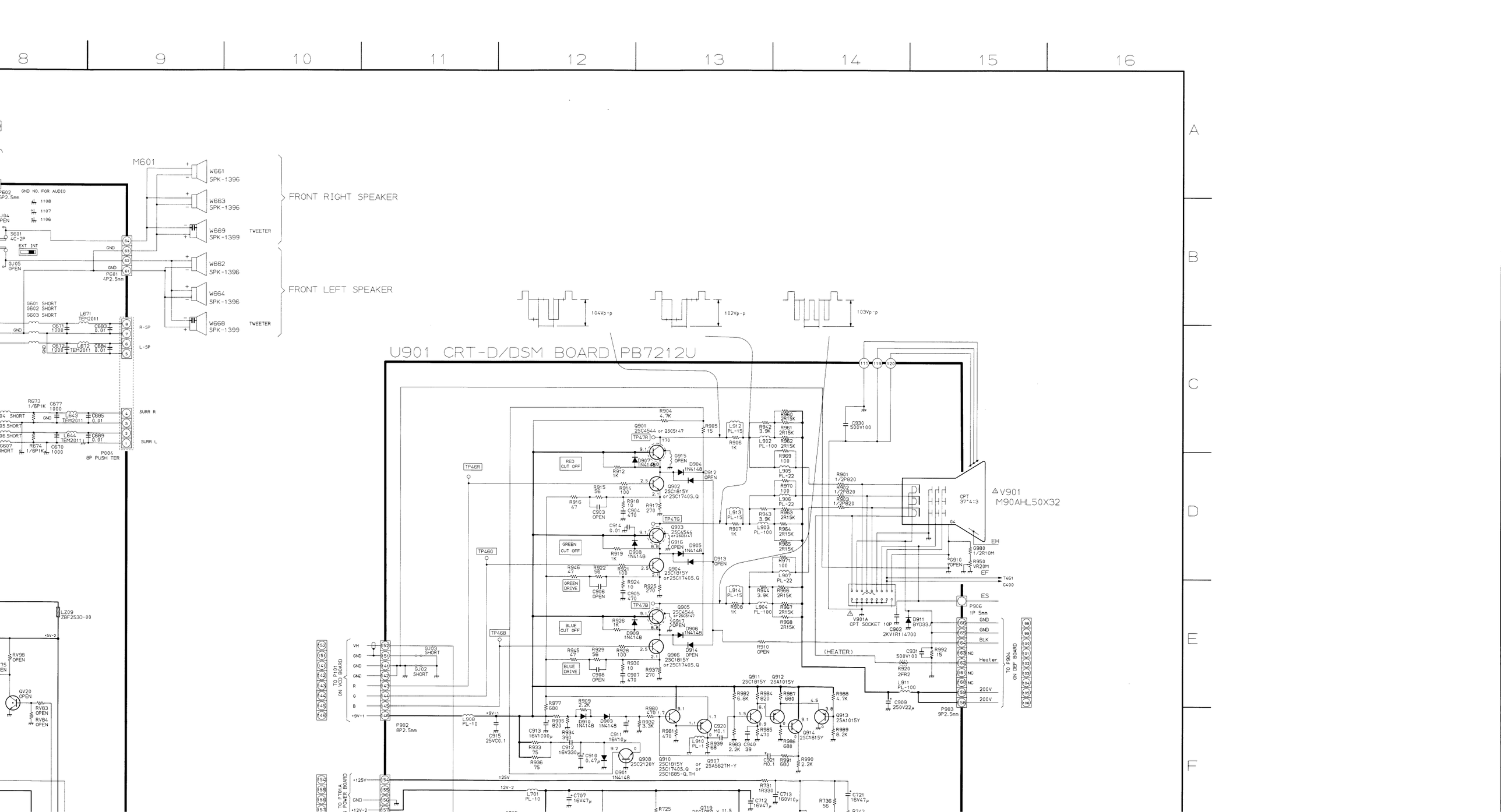
TES:

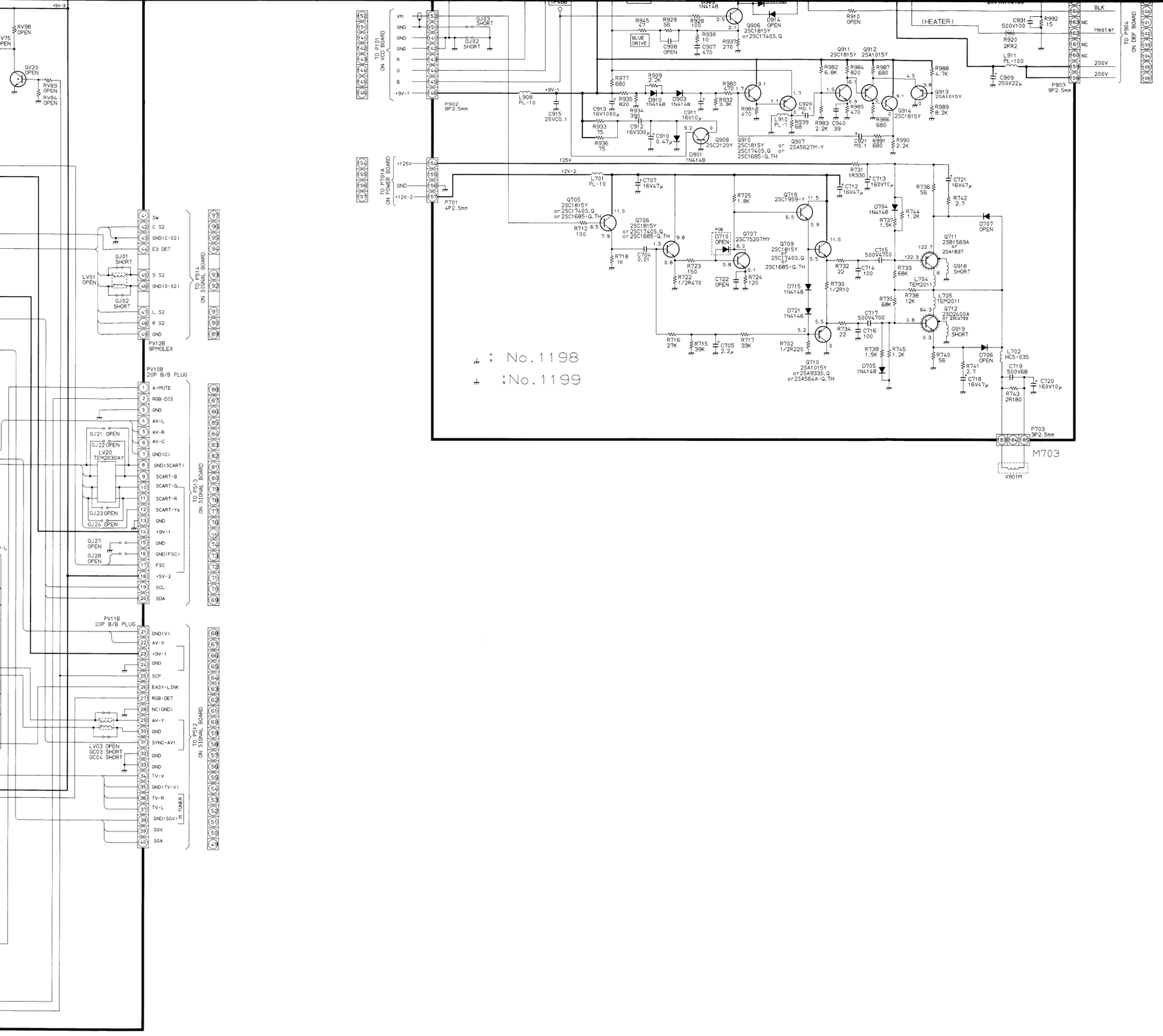
.C. resistance value of a principal transformer is shown in this schematic dia-
ram. These are measured for separated from the circuit.
he circuits are subject to change without notice.
● : Solder links.

EXPRESSION

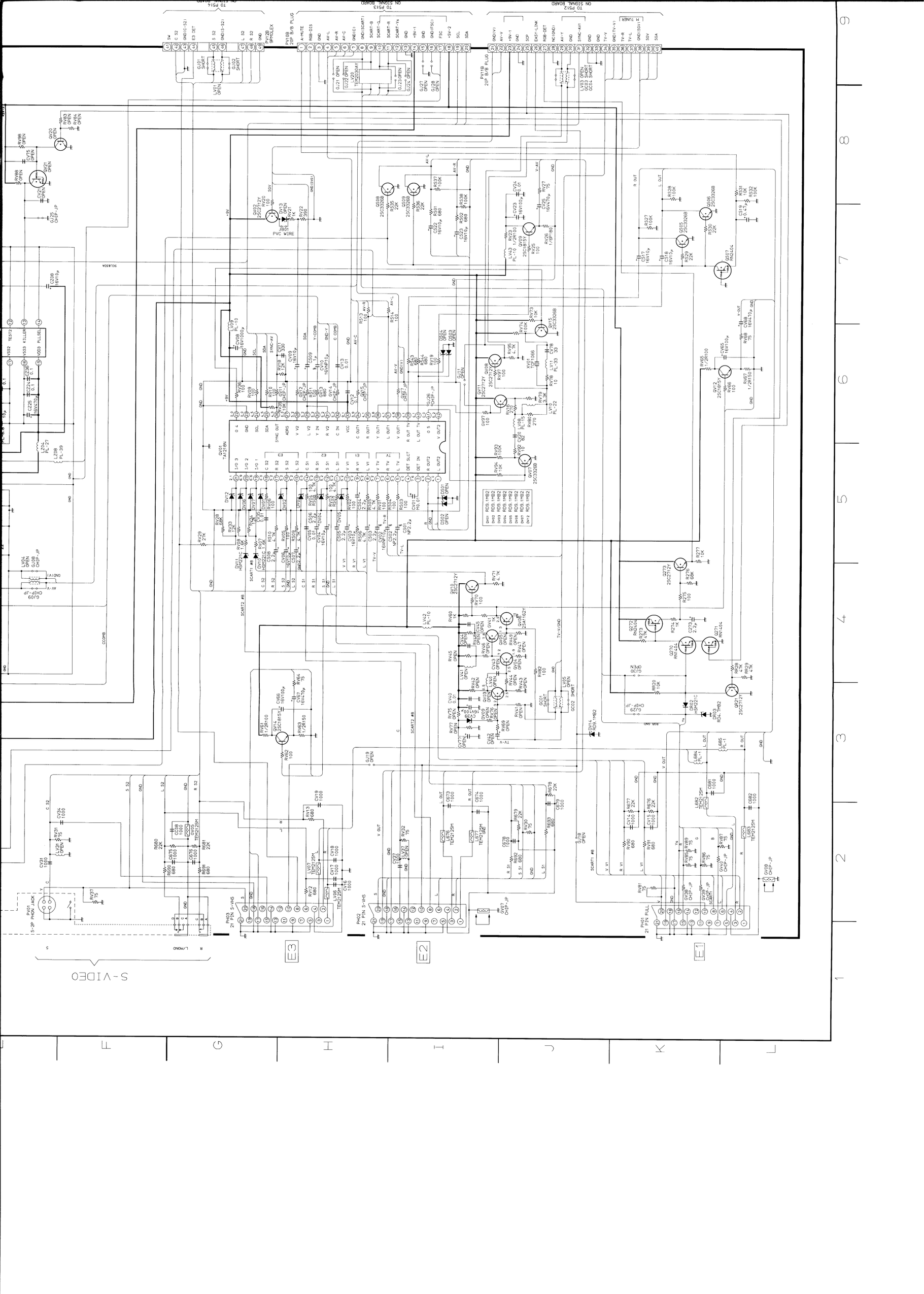
VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.





BACK-T/CRT-D
3788DG 3/6
PK2683


TO PS14 ON SIGNAL BOARD
TO PS13 ON SIGNAL BOARD
TO PS12 ON SIGNAL BOARD
PV10B 20P B/B PLUG
PV11B 20P B/B PLUG
PV12B SHROLEX
TUNER
S-VIDEO
E3
E2
E1
SCART1 #8
SCART2 #8
PH01 21 PIN RGB
PH02 21 PIN S-VHS
PH03 21 PIN S-VHS
PV01 S-2P PHON JACK
IC01 TA1218N
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IC994 TA1218N
IC995 TA1218N
IC996 TA1218N
IC997 TA1218N
IC998 TA1218N
IC999 TA1218N
IC1000 TA1218N

SCHEMATIC DIAGRAM MODEL : 3788DG (4/6)

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not degrade the safety of the receiver through improper servicing.

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3. Waveforms are taken using a standard colour bar signal.
4. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

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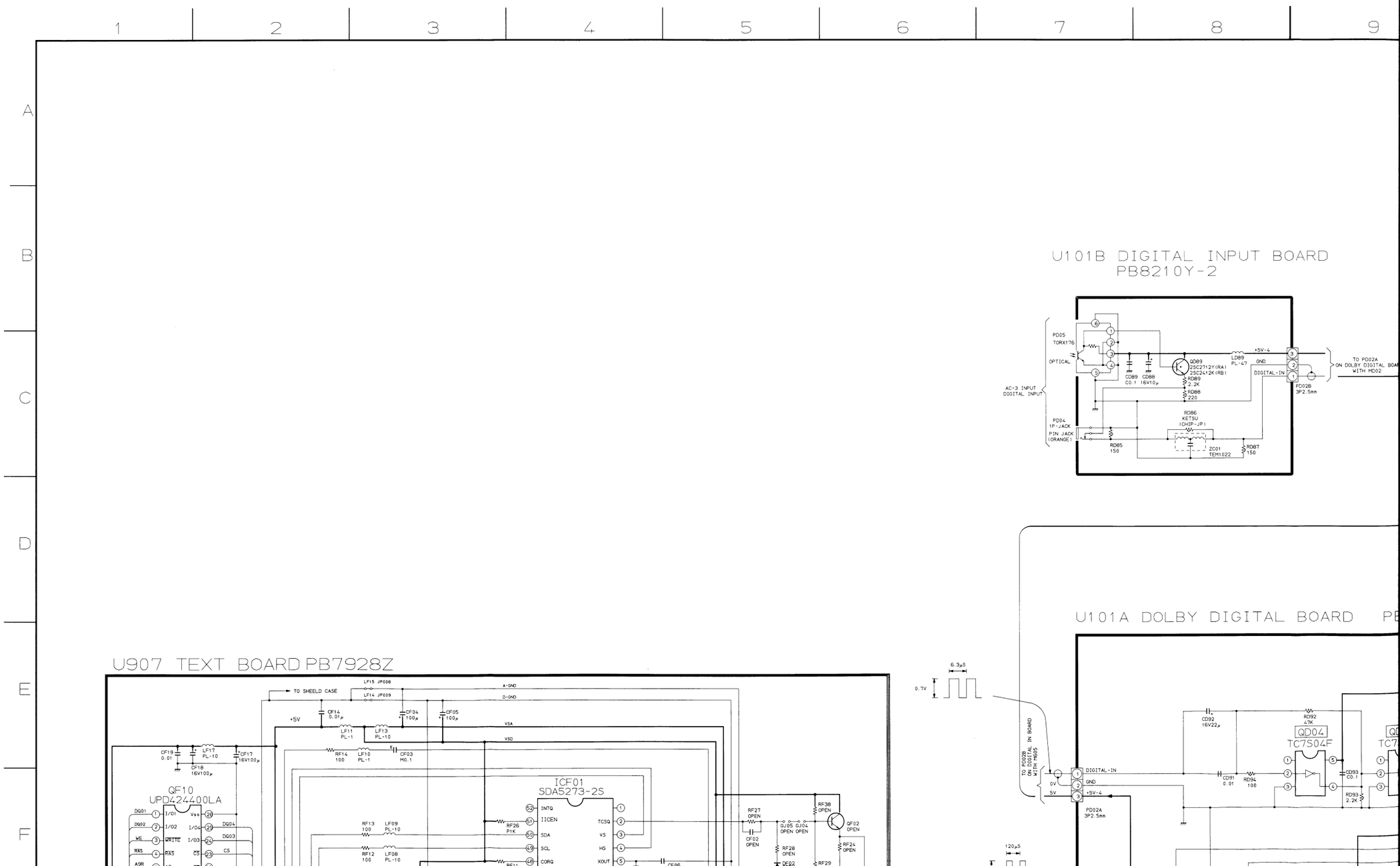
1. D.C. resistance value of a principal t
gram. These are measured for separate
2. The circuits are subject to change with
3. ⬬ : Solder links.



ES:

C. resistance value of a principal transformer is shown in this schematic dia-
am. These are measured for separated from the circuit.
e circuits are subject to change without notice.
: Solder links.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

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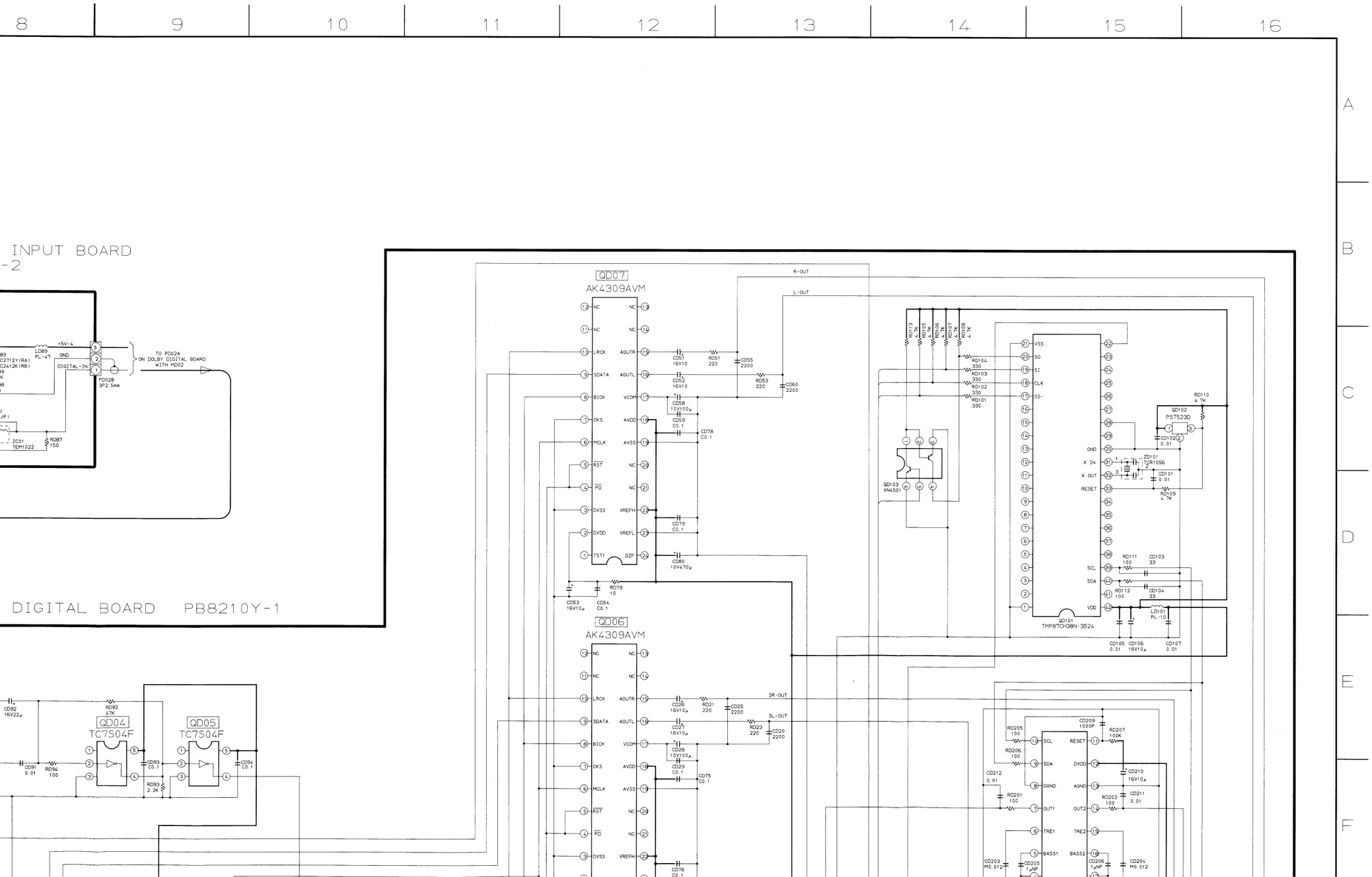
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.



QD01
ZR38600

QD02
AK4309AVM

QD04
TC7S04F

QD05
TC7S04F

QD30
TA1217AN

QD201
M62420SP

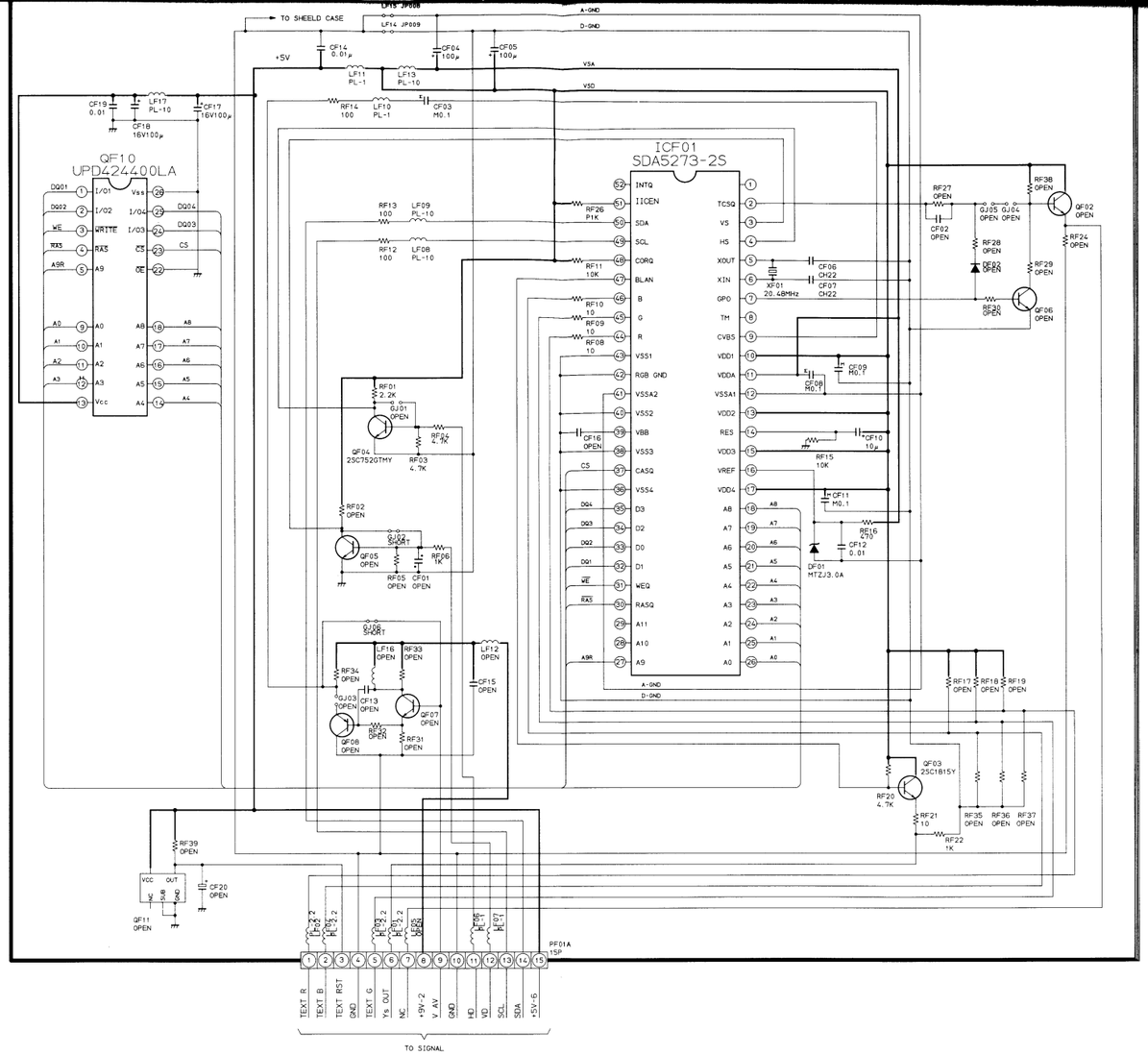
QD80
2SC3852 (RA)
2SD1944H (RB)
2SD1405BL (RC)

PD30
7P PLUG

PD31
13P SOCKT

TO SIGNAL BOARD

TEXT/AC-3/D-IN
3788DG 4/6
PK2684


ICF01
SDA5273-2S
QF10
UPD424400LA
TO SHEELD CASE
+5V
A-GND
D-GND
VSA
VSD
INTQ
IICEN
SDA
SCL
CORQ
BLAN
B
G
R
VSS1
RGB GND
VSSA2
VSS2
VBB
VSS3
CASQ
VSS4
D3
D2
D0
D1
WEQ
RASQ
A11
A10
A9
TCSQ
VS
HS
XOUT
XIN
GPO
TM
CVBS
VDD1
VDDA
VSSA1
VDD2
RES
VDD3
VREF
VDD4
A8
A7
A6
A5
A4
A3
A2
A1
A0
XF01
20.48MHz
QF01
MTZJ3.0A
QF02
QF03
2SC1815Y
QF04
2SC752GTMY
QF05
QF06
QF07
QF08
QF09
QF10
QF11
PF01A
15P
TEXT R
TEXT B
TEXT RST
GND
TEXT G
Ys OUT
NC
+9V-2
V_AV
GND
HD
VD
SCL
SDA
+5V-6
TO SIGNAL
DIGITAL-IN
GND
+5V-4
PD02A
3P2.5mm
TO PD02B
ON DIGITAL
AV BOARD
QD04
TC7S04F
TO HD02
TM MODULE
PD07
8P B/B
SYSCLK
SCK
WS
SDO1 (IN)
NC
NC
GND
VDD
SDA
SCC
GND
A19
A18
A17
D18
D19
CLKOUT
GND
VCCA
FLTCAP
RESET-
SDA
VDD
SDE
TCK
SCK
TDI
SI
GND
SCKA
WSA
VDD
SDF
WSB
D17
SCKB
D16
SPFTX/SDG
D15
A0
GND
SS-
THS
INT-
VDD
D7/XRDS
GND
A1
A2
A3
VDD
0.7V
120µS
0.48µS
31µS
5V
0V

SCHEMATIC DIAGRAM MODEL : 3788DG (5/6)

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not degrade the safety of the receiver through improper servicing.

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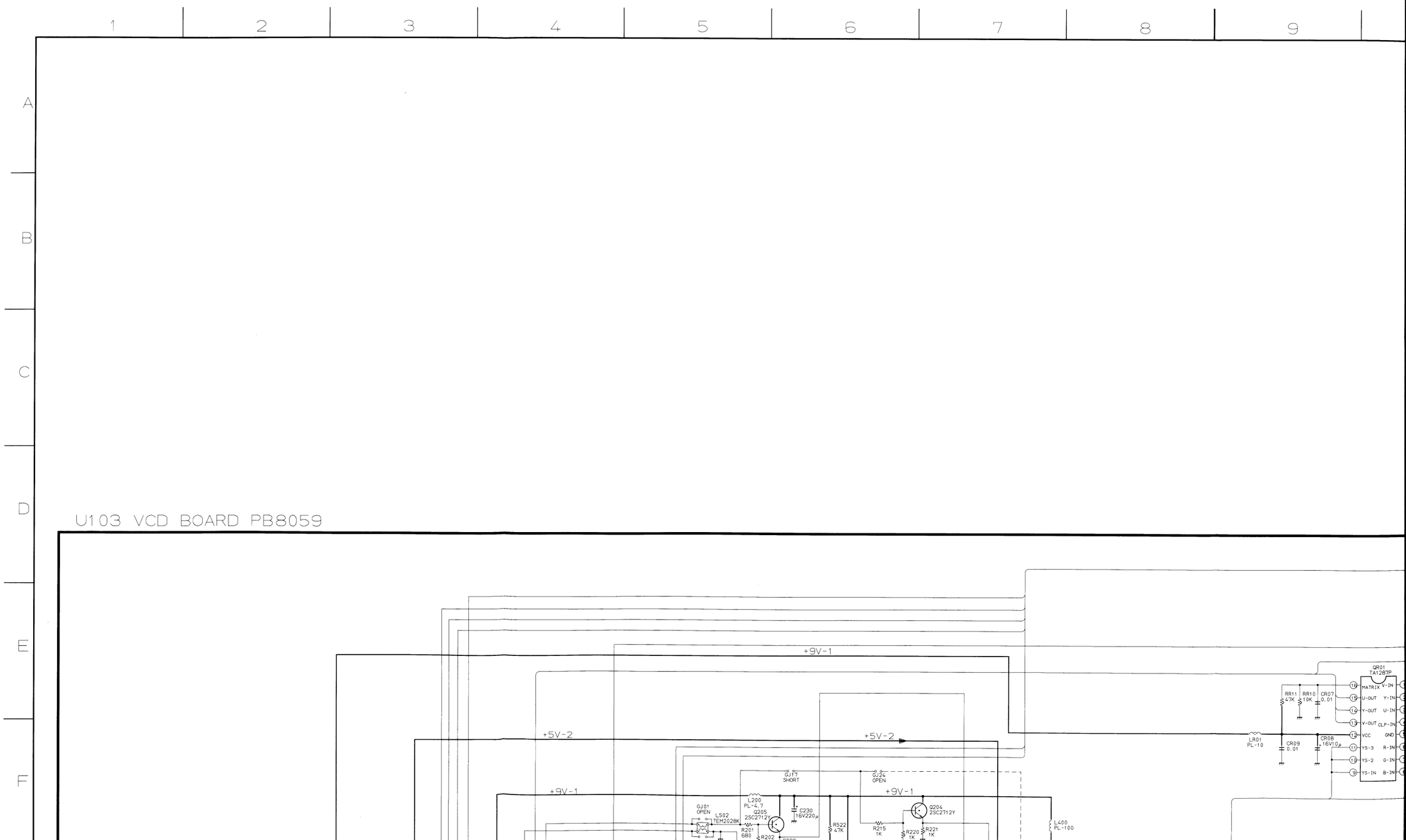
4. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

NOTES:

1. D.C. resistance value of a principal transformer is sh
gram. These are measured for separated from the circu
2. The circuits are subject to change without notice.
3. ⬬ : Solder links.



NOTES:

1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3. ⊖ : Solder links.

EXPRESSION

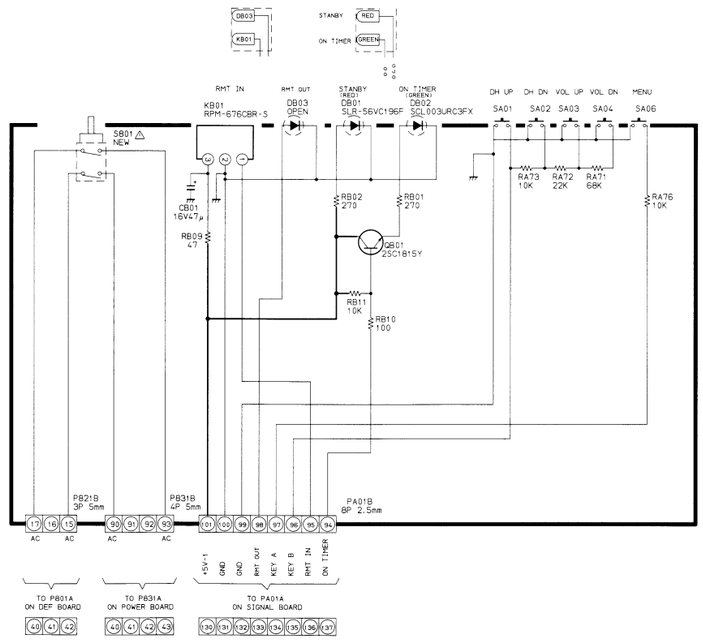
VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.

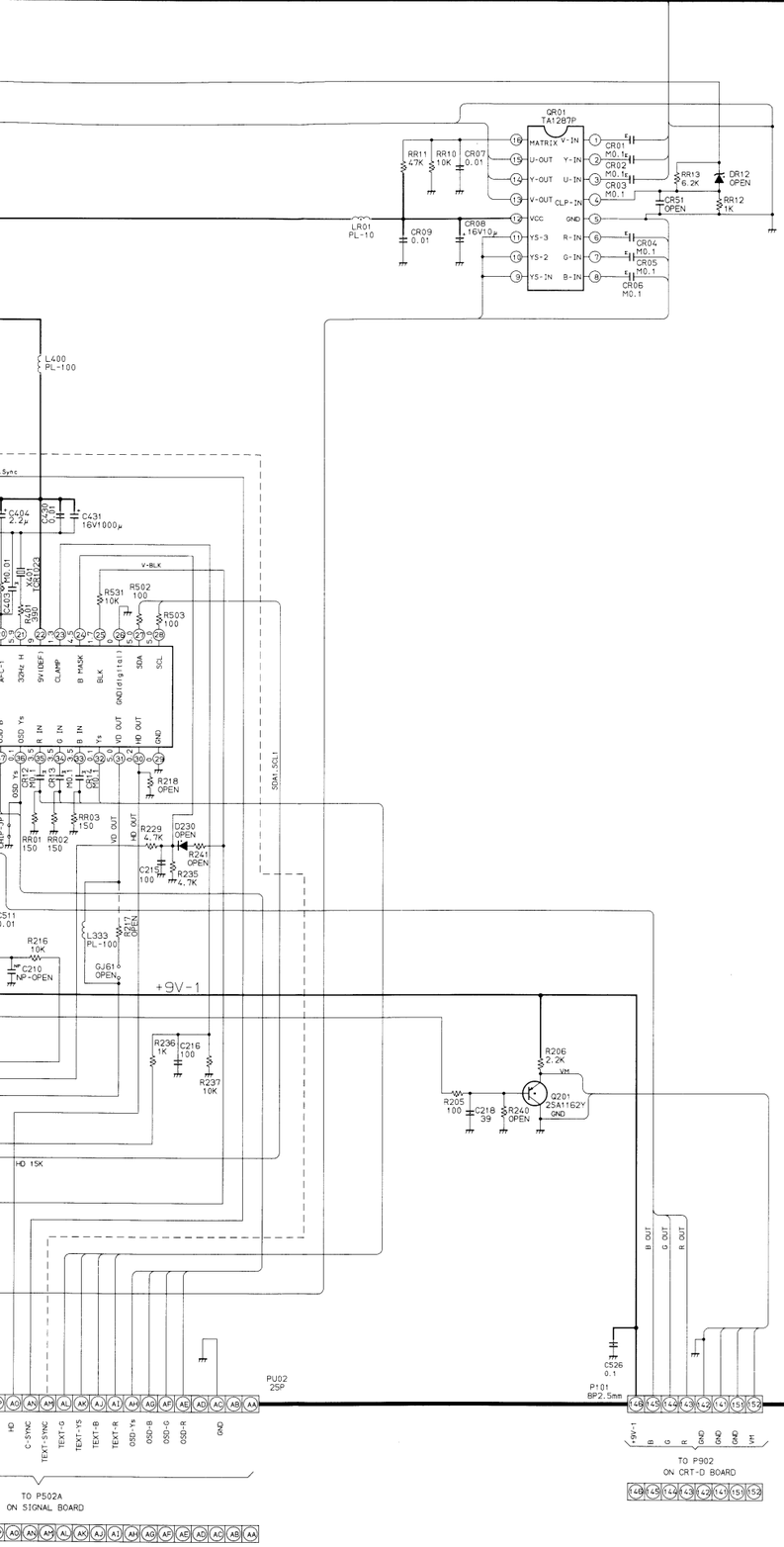
8 9 10 11 12 13 14 15 16

A B C D E F

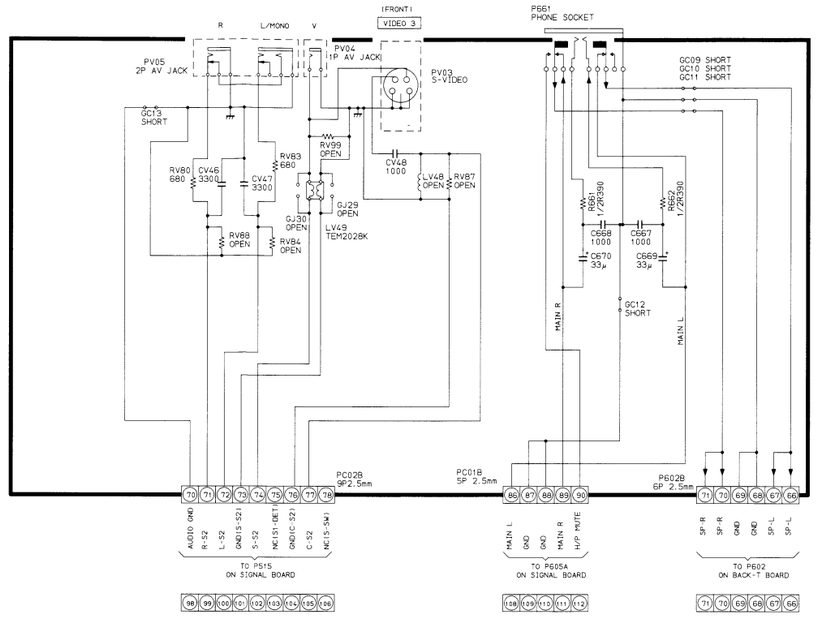
U906A CONT-1 BOARD PB7939X-1



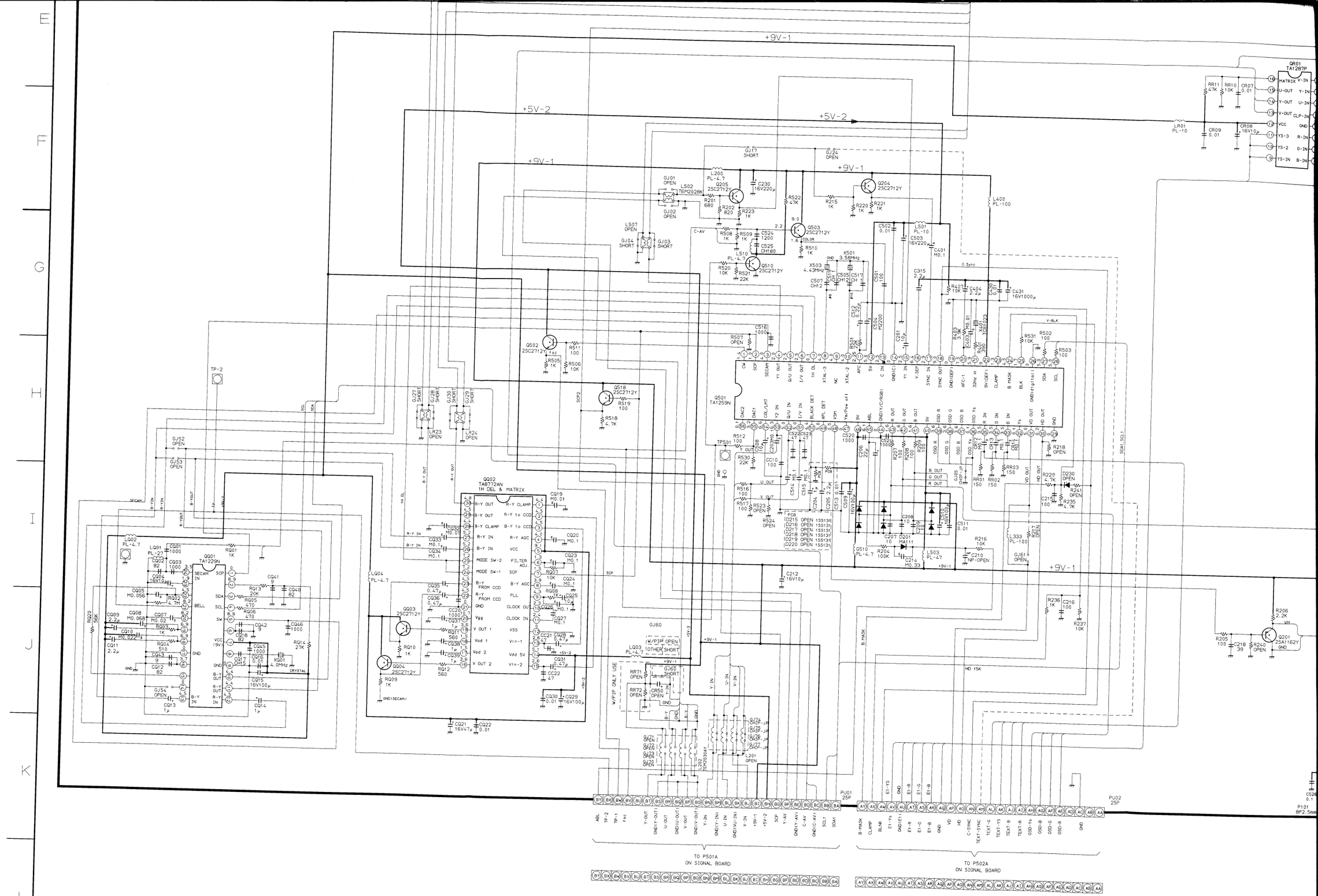
U906B CONT-2 BOARD PB7939X-2



U906B CONT-2 BOARD PB7939X-2



VCD/CONT-1/CONT-2
3788DG 5/6
PK2685


+9V-1
+5V-2
QR01 TA1287P
MATRIX
V-IN
U-OUT
Y-IN
Y-OUT
U-IN
V-OUT
CLP-IN
VCC
GND
YS-3
R-IN
YS-2
G-IN
YS-IN
B-IN
LR01 PL-10
CR09 0.01
CR08 16V10µ
RR11 47K
RR10 10K
CR07 0.01
GJ01 OPEN
GJ02 OPEN
L502 TEM2028K
L200 PL-4.7
Q205 2SC2712Y
C230 16V220µ
R201 680
R202 820
R223 1K
GJ17 SHORT
GJ24 OPEN
R522 47K
R215 1K
R220 1K
R221 1K
Q204 2SC2712Y
L400 PL-100
L507 OPEN
GJ04 SHORT
GJ03 SHORT
C-AV
R508 1K
R509 1K
C524 1200
C525 CH180
L510 PL-4.7
Q510 2SC2712Y
R520 10K
R521 22K
Q503 2SC2712Y
COLOR
R510 1K
XS01 3.58MHz
X503 4.43MHz
C502 0.01
C501 PL-10
C503 16V220
C401 M0.1
C315 2.2µ
C.Sync
R401 10K
C404 2.2µ
C450 100
C431 16V1000µ
C507 CH12
C505 CH12
C517 CH12
C512 2.2µ
C504 M2200
C501 100
C201 1.2
R501 10K
R540 5.6K
C405 M0.01
X401 3.58MHz
V-BLK
R531 10K
R502 100
R503 100
Q502 2SC2712Y
R511 100
R505 1K
R506 10K
Q518 2SC2712Y
R519 100
R518 4.7K
TP-2
SCP2
SCL
SDA
GJ27 SHORT
GJ28 SHORT
GJ30 SHORT
GJ29 SHORT
LR23 OPEN
LR24 OPEN
GJ52 OPEN
GJ26 OPEN
C516 1000
R507 OPEN
Q501 TA1259N
CH
SCP
SECAM
Y1 OUT
Q/U OUT
I/V OUT
1H DL
XTAL-3
NC
XTAL-2
APC
5V
C IN
GND(C)
Y1 IN
V SEP
SYNC IN
SYNC OUT
GND(DEF)
AFC-1
30Hz H
9V DEFI
CLAMP
B MASK
BLK
GND(digital)
SDA
SCL
DAC2
DAC1
COL.LIMIT
Y2 IN
Q/U IN
I/V IN
BLACK DET
APC DET
V3M
Ye/Pos off
9V
ABL
GND(Y/C/RGB)
R OUT
G OUT
B OUT
OSD R
OSD G
OSD B
OSD Ys
R IN
G IN
B IN
Ys
VD OUT
HD OUT
GND
TP501
R512 100
C508 10
C203 M0.1
C522 M0.1
C523 M0.1
C520 1000
C521 1000
C206 22µ
R206 100
R207 100
R208 100
R209 100
C207 10
C208 10
C209 10
C510 16V1000
C511 0.01
R216 1.0K
C210 NP-OPEN
C214 M0.33
L503 PL-47
+9V-1
R530 22K
C509 1000
CC10 100
R516 100
R517 100
R523 OPEN
R524 OPEN
C514 M0.1
C515 M0.1
C513 0.01
C205 2.2µ
C274
C539
U OUT
V OUT
GND
PCB
D215 OPEN 1SS131
D216 OPEN 1SS131
D217 OPEN 1SS131
D218 OPEN 1SS131
D219 OPEN 1SS131
D220 OPEN 1SS131
C212 16V10µ
R218 OPEN
R229 4.7K
D230 OPEN
R241 OPEN
C215 100
R235 4.7K
RR01 150
RR02 150
RR03 150
L333 PL-100
GJ61 OPEN
R217 OPEN
R236 1K
C216 100
R237 10K
R206 2.2K
VOL
R205 100
C218 39
R240 OPEN
Q201 2SA1162Y
GND
C526 0.1
P101 8P2.5mm
SDA1 SCL1
B MASK
HD 15K
GJ60
W/PIP OPEN
OTHER SHORT
W/PIP ONLY USE
RR71 OPEN
RR72 OPEN
CR50 OPEN
GJ65 SHORT
Y IN
U IN
V IN
B-Y
R-Y
GND
R478 CHIP-JP
R479 CHIP-JP
R476 CHIP-JP
R477 CHIP-JP
R471 OPEN
R472 OPEN
R473 OPEN
R474 OPEN
R475 OPEN
L202 EM2030AY
L201 OPEN
PU01 25P
PU02 25P
ABL
TP-2
TP-1
fsc
Y-OUT
GND(Y-OUT)
U-OUT
GND(U-OUT)
V OUT
GND(Y-OUT)
Y-IN
GND(Y-IN)
U-IN
GND(U-IN)
V-IN
+9V-1
+5V-2
SCP
Y-AV
GND(Y-AV)
C-AV
GND(C-AV)
SCL1
SDA1
B-MASK
CLAMP
BLNK
E1-Ys
GND(E1)
E1-R
E1-G
E1-B
GND
VD
HD
C-SYNC
TEXT-SYNC
TEXT-G
TEXT-YS
TEXT-B
TEXT-R
OSD-Ys
OSD-B
OSD-G
OSD-R
GND
TO P501A ON SIGNAL BOARD
TO P502A ON SIGNAL BOARD
QQ02 TA8772AN 1H DEL & MATRIX
R-Y OUT
R-Y CLAMP
B-Y OUT
R-Y to CCD
B-Y CLAMP
B-Y to CCD
R-Y IN
R-Y AGC
B-Y IN
VCC
MODE SW-2
FILTER ADJ.
MODE SW-1
SCP
B-Y FROM CCD
B-Y AGC
R-Y FROM CCD
PLL
GND
CLOCK OUT
Vgg
CLOCK IN
V OUT 1
VSS
Vod 1
Vin-1
Vod 2
Vdd 5V
V OUT 2
Vin-2
CQ19 M0.01
CQ20 M0.1
CQ23 M0.1
CQ24 M0.1
CQ25 10µ
CQ26 M0.1
CQ27 M0.1
CQ28 0.47µ
CQ29 16V100µ
CQ30 0.01
CQ31 0.47µ
CC22 47
CQ22 0.01
CQ21 16V47µ
CQ32 M0.01
CQ33 M0.1
CQ34 M0.1
CQ35 0.47µ
CQ36 0.47µ
CC20 1000
CQ37 1µ
CQ38 1µ
CC39 1µ
RQ11 560
RQ12 560
RQ10 1K
RQ09 1K
QQ03 2SC2712Y
QQ04 2SC2712Y
GND(SECAM)
LQ04 PL-4.7
SCP
+9V-1
+5V-2
LQ03 PL-4.7
LQ02 PL-4.7
LQ01 PL-27
CQ01 1000
QQ01 TA1229N
SECAM IN
SCP
BELL
SDA
SCL
SW
VCC (9V)
GND
B-Y OUT
R-Y OUT
B-Y IN
R-Y IN
RQ01 1K
CQ02 82
CQ03 1000
CQ04 16V10µ
RQ02 4.7M
CQ05 M0.056
CQ07 M0.02
CQ08 M0.068
RQ03 1K
CQ09 2.2µ
CQ10 M0.022
RQ04 510
CQ11 2.2µ
CQ43 9
CQ12 82
GJ54 OPEN
CQ13 1µ
CQ14 1µ
RQ05 470
RQ06 470
CQ18 82
CQ17 CH15
CQ16 0.01
X201 4.0MHz
CRYSTAL
CQ15 16V100µ
RQ13 20K
RQ14 27K
CQ41 9
CQ40 82
CQ42 9
CQ46 1000
CQ45 1000
R220 50K
SECAM
B-Y/IN
R-Y/IN
B-Y/OUT
R-Y/OUT
Fs
GND
1H DL
B-Y OUT
R-Y OUT
B-Y IN
R-Y IN

SCHEMATIC DIAGRAM MODEL : 3788DG (6/6)

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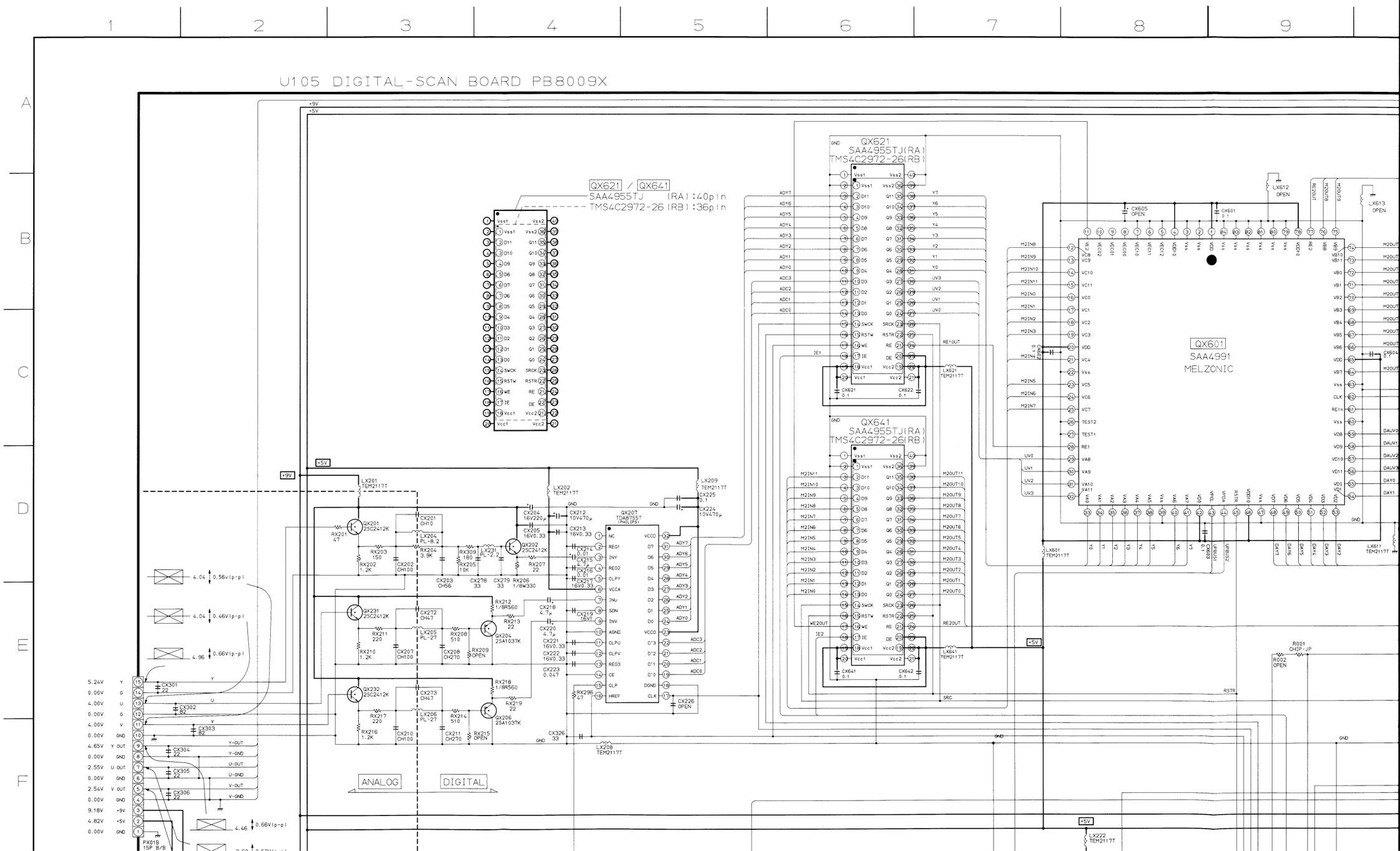
2. The circuits are subject to change without notice.
3. ⬬ : Solder links.



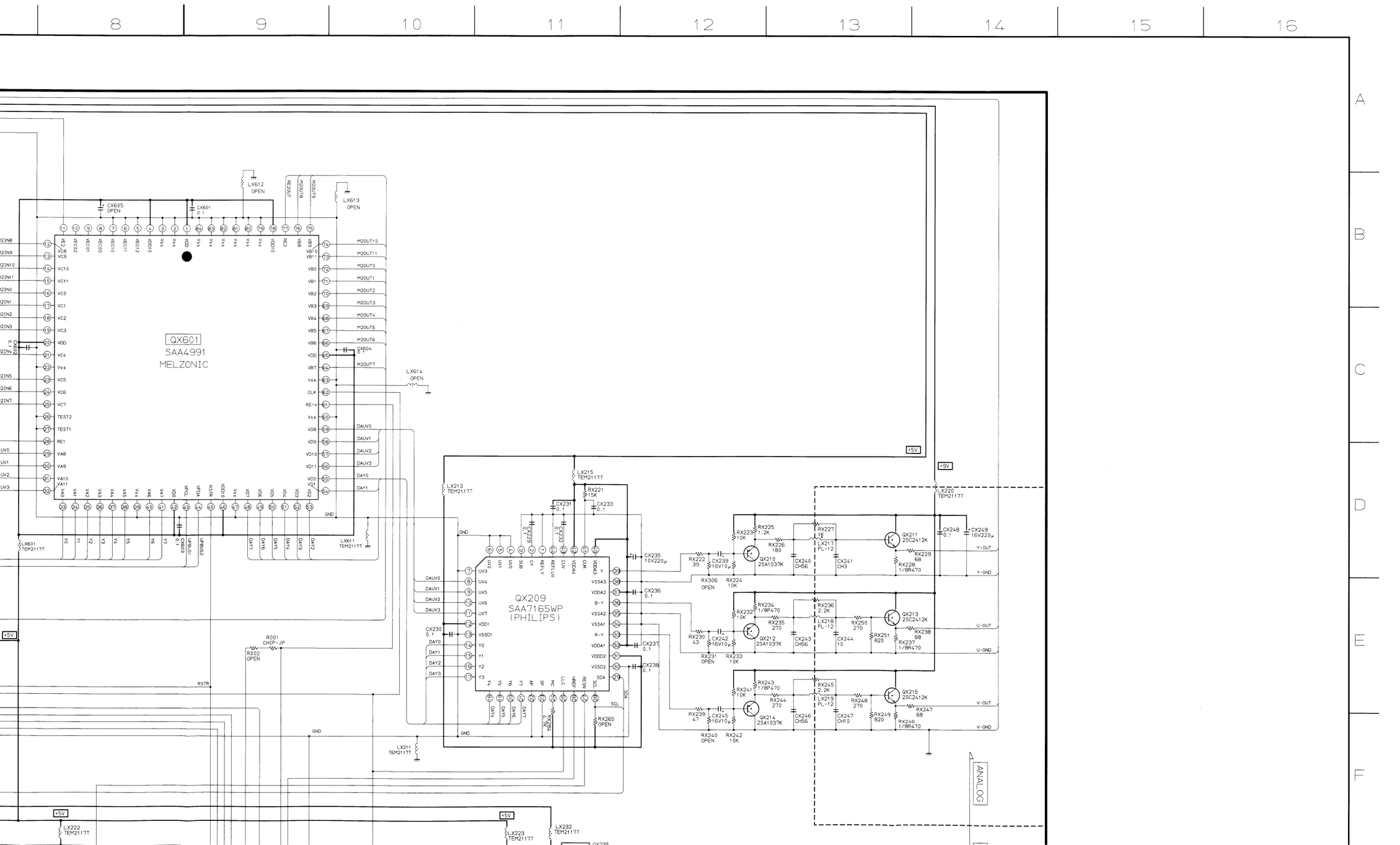
EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.

NOTES:

1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3. ⬬ : Solder links.



QX209
SAA7165WP
(PHILIPS)

ANALOG

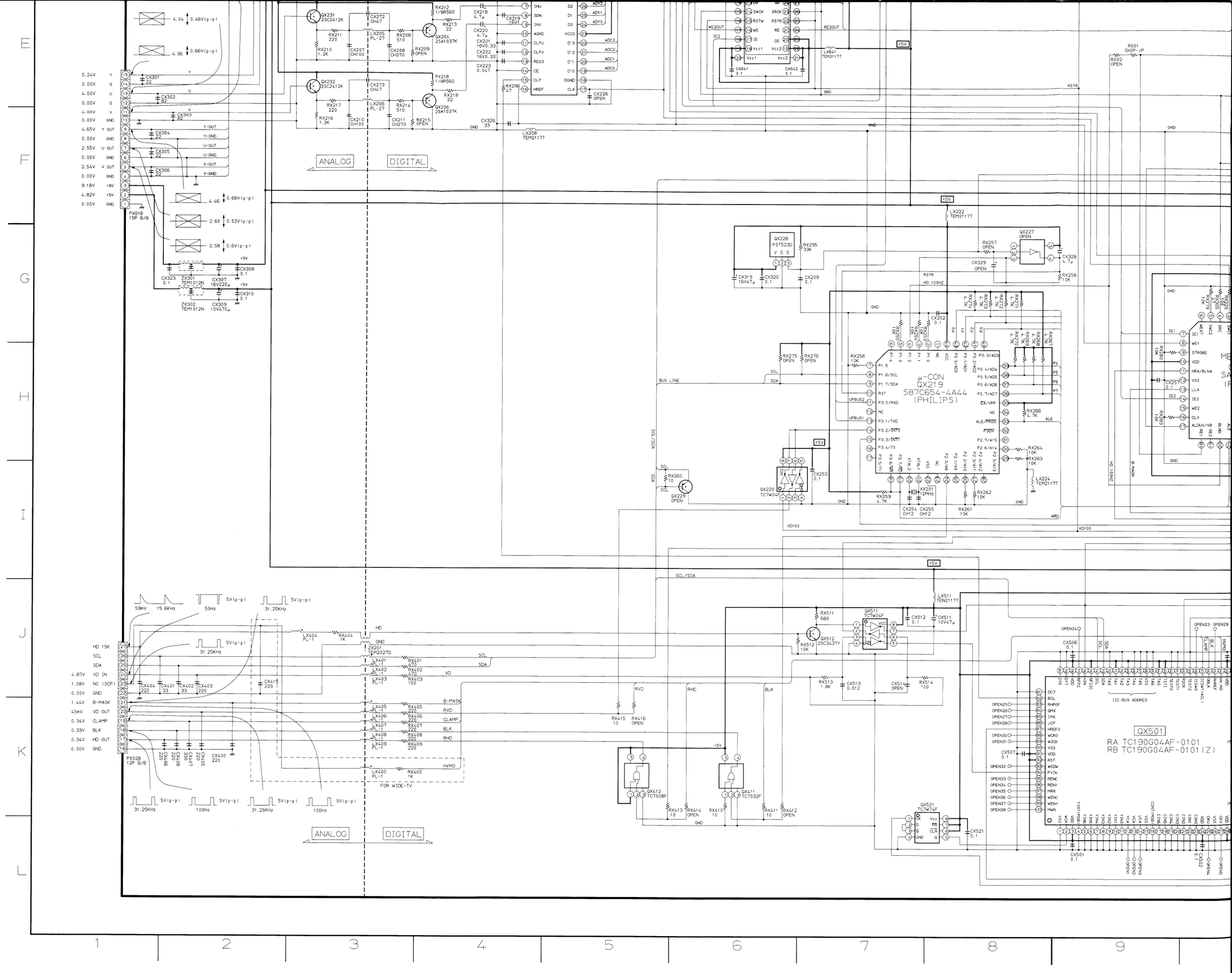
DIGITAL

μ-CON
QX219
S87C654-4A44
(PHILIPS)

MEMORY CNT
QX221
SAA4952WP
(PHILIPS)

QX501
RA TC190G04AF-0101
RB TC190G04AF-0101(Z)

DIGITAL-SCAN
3788DG 6/6
PK2686


ANALOG
DIGITAL
QX501
RA TC190G04AF-0101
RB TC190G04AF-0101(Z)
μ-CON
QX219
S87C654-4A44
(PHILIPS)
IIC-BUS ADDRES
BUS LINE
SCL/SDA
FOR WIDE-TV
PX01B
15P B/B
PX02B
12P B/B
ZX201
TEM2027D
ZX301
TEM1012N
ZX302
TEM1012N
LX208
TEM2117T
LX222
TEM2117T
LX224
TEM2117T
LX511
TEN2117T
LX641
TEM2117T
QX231
2SC2412K
QX232
2SC2412K
QX204
2SA1037K
QX206
2SA1037K
QX228
PST523D
QX227
OPEN
QX229
OPEN
QX220
TC7W04F
QX511
TC7W04F
QX512
2SC3437Y
QX412
TC7S08F
QX411
TC7S32F
QX521
TC7W74F
HD 100HZ
VD100
WRD
RSTR
SRC
B-MASK
RVD
RHD
BLK
CLAMP
HVMO
SCL
SDA
+5V
+9V
GND

SPECIFICATIONS

Input Power Rating: 230 Watts (Normal), AC 220 ~ 240 Volts, 50 Hz

Aerial Input Impedance: 75 ohm unbalanced type for VHF, UHF and CATV

Receiving Channels:

System	Channel	VHF	UHF	CATV	
PAL B/G	CCIR	2 ~ 12	21 ~ 69	S1 ~ S41	X ~ Z + 2,
SECAM B/G	CCIR	2 ~ 12	21 ~ 69	S1 ~ S41	X ~ Z +2,
PAL D/K	CHINA	1 ~ 12	13 ~ 57	Z-1 ~ Z-35	
SECAM D/K	OIRT	1 ~ 12	21 ~ 69	X-1 ~ X-19	
PAL I	UK	–	21 ~ 69	–	
SECAM L	FRANCE /CCIR	FB ~ F6	21 ~ 69	S1 ~ S41	X ~ Z +2,

PAL, SECAM 50 Hz/60 Hz (For Video Disk play back)
4.43 NTSC (For VCR playback), 3.58 NTSC (For VCR playback)

Intermediate Frequencies:
Picture I-F carrier frequency ..... 38.9 MHz (OTHERS) 33.95 MHz (L, VL)
Sound I-F carrier frequency
- L System ..... 32.4 MHz (L, VH, U)/40.45 MHz (L, VL)
- B/G System ..... 33.4 MHz
- D/K System ..... 32.4 MHz
- I System ..... 32.9 MHz

Picture Tube: 37 inches, M90AHL50X32, 900 mm (measured on diagonal of viewable picture area)
110° deflection

Sound Output: 15 W + 15W (at 10% Distortion, Main), 25W (at 10% Distortion, center)
15W (at 10% Distortion, Woofer), 15 W + 15W (at 10% Distortion, Surround)

Speakers:
80 mm x 120 mm oval, 2 pcs (Main)
120 mm, round, 1 pc (Woofer)
80 mm x 120 mm oval, 2 pcs (Center)
50 mm, round, 2 pcs (Tweeter)

Cabinet: Table type

Dimensions:
Height ..... 784.5 mm
Width ..... 1006 mm
Depth ..... 647 mm

Mass: 76.5 kg

Specifications are subject to change without notice.